1045 002 325 074

LENOX

CHINA • CRYSTAL

POMONA, NEW JERSEY 08240

June 16, 1982

Mr. John Trela
Chief, Permits Review Section
Bureau of Groundwater Resources Management
Division of Water Resources
CN 029
Trenton, New Jersey 08625

Dear Mr. Trela:

Lenox China Inc. owns and operates a manufacturing facility in Pomona, New Jersey. Exhibit 1 is a site plan of the Pomona facility showing the location of the Slip Basin (Item 7) and the Glaze Basin (Item 10). The Glaze Basin contains glaze which was discharged prior to 1970. This basin has been a dormant storage facility since that date. It is the Company's intent to remove and recycle material from this basin to reclaim lead. The Slip Basin, which received glaze from 1970 to 1981, is an integral part of the Industrial Waste Treatment System which is covered by NPDES Permit #NJ0005177. Internal process changes made in 1980 and 1981 now permit the recycling of all glaze within the plant.

Our regulatory consultant, New Jersey First Incorporated, has advised us that both of these basins would, most probably, be classified as infiltration lagoons based on definitions contained in NJPDES regulations. New Jersey First has further advised that infiltration lagoons must be the subject of an application for an NJPDES groundwater permit within six months of the effective date of these regulations, November 6, 1981.

The purpose of this letter is twofold. First, the Company requests an extension of any permit filing requirement which might be applicable in order to provide adequate time for the preparation and submission of an application. Second, the Company requests an opportunity to meet with you to discuss the specific procedures and policies of the Department applicable to this site. We request that this meeting be held at your earliest convenience.

In addition to retaining New Jersey First Incorporated which serves as our regulatory consultant, the Company has held discussions with groundwater consultant Geraghty & Miller Inc., regarding specific services which that company might render in support of our groundwater monitoring program.

Very truly yours,

A. J. Gustray
Director of Facilities Engineering

651125

AJG/bt

cc: Dr. Ernest Regna
Chief, Solid Waste Branch
Air & Waste Management Division
U. S. Environmental Protection Agency, Region II
26 Federal Plaza - Room 905
New York, New York 10278

Mr. John W. Gaston P.E.
New Jersey First Incorporated
Route 31 Professional Building
2490 Pennington Road
Trenton, New Jersey 08638

Mr. John Isbister, V.P.
Geraghty & Miller Inc.
North Shore Atrium
6800 Jericho Turnpike
Syosset, New York 11791

7/15
NJS 002 325 074 1F

State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
P. O. BOX 2809 CN-029
TRENTON, NEW JERSEY 08625

ARNOLD SCHIFFMAN
DIRECTOR

1982 - JUL 2 1982

Mr. A. J. Gustray
Director of Facilities Engineering
Lenox China, Inc.
Pomona, New Jersey 08240

Dear Mr. Gustray:

Pursuant to the regulations concerning the New Jersey Pollutant Discharge Elimination System, N.J.A.C. 7:14A-1 et seq., Lenox China, Inc. is hereby granted an extension of time for the submission of its application for infiltration/percolation lagoons at the Pomona plant until August 1, 1982.

Please be advised that this granting of an extension does not relieve Lenox China, Inc. of liability for not submitting an application as required in N.J.A.C. 7:14A-10.1.

Sincerely,

ORIGINAL SIGNED BY
DR. MARWAN M. SADAT
ASSISTANT DIRECTOR
WATER QUALITY MGT.

Dr. Marwan M. Sadat, P.E.
Assistant Director
Water Quality Management

WQM107:clb

cc: Mr. Haig Kasabach
Mr. John Trela
Dr. Ernest Regna
Mr. John W. Gaston
Mr. John Isbister
Mr. Robert Vincent, Region III
Mr. Paul Kurisko

coordinate with John Trela, DEP

Bob
See me to discuss
RM

Bob
Ertec is currently doing eval of GW monitoring program.
Ertec has been told to coordinate with Trela. Ron

WMS 002 325 074 7/28 7-F

LENOX
CHINA · CRYSTAL
POMONA, NEW JERSEY 08240

PE82- July 26, 1982

Atlantic County
Bob Gantzer

Dr. Marwan M. Sadat, P.E.
Assistant Director
Water Quality Management Element
Division of Water Resources
CN-029
Trenton, New Jersey 08625

Dear Dr. Sadat:

In response to your July 2, 1982 letter, a pre-application meeting was held on July 12, 1982 with Mr. John Trela, Chief, Groundwater Permits Section and member of his staff, Mr. Thomas May and Mr. Joseph Benintente. Mr. John FitzPatrick, Assistant Vice President and I attended for Lenox along with our regulatory consultant, John Gaston of New Jersey First, Incorporated.

The Lenox waste management facilities, particularly the glaze and slip lagoons, were thoroughly reviewed at this meeting. The Department's guidance was sought regarding compliance with your requirement to file an NJPDES application by August 1, 1982.

Based upon guidance received, and an assessment of work needed to complete required permit application documents, we request a three month extension in the filing deadline for an applicable NJPDES permit. This period should be adequate to complete technical field studies and prepare associated reports and permit applications.

We wish to acknowledge the cordial atmosphere and informative assistance provided by your staff at our recent meeting. We look forward to a continued constructive relationship in the permitting of our groundwater discharge facilities.

Very truly yours,

A. J. Gustray

A. J. Gustray
Director,
Facilities Engineering

AJG/pm

cc: Mr. John W. Gaston P.E.
New Jersey First Incorporated
Route 31 Professional Building
2490 Pennington Road
Trenton, New Jersey 08638

Mr. John Isbister, V.P.
Geraghty & Miller, Inc.
North Shore Atrium
6800 Jericho Turnpike
Syosset, New York 11791

Mr. Haig Kasabach
Chief, Bureau of Groundwater
Resources Management
Division of Water Resources
CN-029
Trenton, New Jersey 08625

Dr. Ernest Regna ✓
Chief, Solid Waste Branch
Air & Waste Management Division
U.S. Environmental Protection Agency
Region II
26 Federal Plaza - Room 905
New York, New York 10278

Mr. John Trela
Chief, Permits Review Section
Bureau of Groundwater Resources Management
Division of Water Resources
CN-029
Trenton, New Jersey 08625

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9/9

1F

Bob G - Bob, is Lenox carrying out gw ml what is this schedule for? Joel

LENOX

CHINA • CRYSTAL

POMONA, NEW JERSEY 08240

1982 - September 7, 1982

Dr. Marwan M. Sadat, P.E.
Assistant Director
Water Quality Management Element
Division of Water Resources
CN-029
Trenton, New Jersey 08625

Dear Dr. Sadat:

Reference my July 26 letter and the request for a three month extension in the filing deadline for an applicable NJPDES permit. Enclosed herewith is our program schedule to complete technical field studies and prepare associated reports and permit applications.

Please call me if there are any questions.

Very truly yours,

A. J. Gustray

A. J. Gustray
Director,
Facilities Engineering

AJG/bt

Enclosure

TRENTON, NEW JERSEY MT. PLEASANT, PENNSYLVANIA

cc: Mr. John W. Gaston, P.E.
New Jersey First Incorporated
Route 31 Professional Building
2490 Pennington Road
Trenton, New Jersey 08638

Mr. John Isbister, V.P.
Geraghty & Miller, Inc.
North Shore Atrium
6800 Jericho Turnpike
Syosset, New York 11791

Mr. Erhardt Werth
Senior Scientist
Geraghty & Miller, Inc.
North Shore Atrium
6800 Jericho Turnpike
Syosset, New York 11791

Mr. Haig Kasabach
Chief, Bureau of Groundwater
Resources Management
Division of Water Resources
CN-029
Trenton, New Jersey 08625

Dr. Ernest Regna
Chief, Solid Waste Branch
Air & Waste Management Division
U.S. Environmental Protection Agency
Region II
26 Federal Plaza - Room 905
New York, New York 10278

Mr. John Trela
Chief, Permits Review Section
Bureau of Groundwater Resources Management
Division of Water Resources
CN-029
Trenton, New Jersey 08625

Geraghty & Miller, Inc.

CONSULTING GROUND-WATER GEOLOGISTS AND HYDROLOGISTS

North Shore Atrium
6800 Jericho Turnpike
Syosset, New York 11791
Cable: WATER

Telephone: 516/921-6060

September 3, 1982

Mr. Albert J. Gustray, Director
Facilities Engineering
Lenox, Inc.
Tilton Road
Pomona, New Jersey 08240

Dear Mr. Gustray:

The following schedule confirms the target dates for our work at the Pomona facility as discussed during our August 31, 1982, meeting.

		Targeted Completion Date
1.	Select (Flag) locations for intital 3 wells	8/31/82
2.	Drilling equipment set-up on site	9/17/82
3.	Installation of initial 3 wells	9/30/82
4.	Surveying of initial wells	10/15/82
5.	Submission of Phase I letter report	11/ 1/82
6.	Installation of 1-3 additional wells	11/ 7/82
7.	Surveying of additional wells	11/12/82
8.	Collection of water samples from selected wells	11/15/82
9.	Submission of project report	1/15/83
10.	Submission of NJPDES permit application (as draft to Lenox)	1/31/83
11.	Submission of NJPDES permit in final form to NJDEP	2/15/83

We believe that this is a reasonable schedule, and we will make every effort to adhere to it; however, Lenox must realize that departures from this schedule could occur as a result of inclement weather, equipment failure, subcontractor errors, and/or other factors that are beyond our control.

Thank you for this opportunity to provide services to Lenox, Inc.

Sincerely,

GERAGHTY & MILLER, INC.

Erhardt Werth

Erhardt Werth
Senior Scientist

John Isbister (KD)

John Isbister
Vice President

EW:JI:kd

cc John Kinkela
John Gaston

NYS 002 325 074 1F

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
CN 029
TRENTON, NJ 08625

Bd, major and RM need to discuss status of this "project" 9:30 a - 9/16 Jed 3

Arnold Schiffman
Director

1982 - SEP 10 1982

RM drop you material

Mr. A.J. Gustray
Director of Facilities Engineering
Lenox China, Inc.
Pomona, New Jersey 08240

Dear Mr. Gustray:

Pursuant to the Regulations concerning the New Jersey Pollutant Discharge Elimination System, N.J.A.C. 7:14A-1 et seq., Lenox China, Inc. is hereby granted an extension of time for the submission of its permit application regulating ground water discharges at the Pomona plant until November 1, 1982.

Please be advised that this granting of an extension does not relieve Lenox China, Inc. of liability for not submitting an application as required in N.J.A.C. 7:14A-10.1.

Sincerely,

ORIGINAL SIGNED BY
JOHN J. TRELA

John J. Trela, Chief
Bureau of Ground Water Discharge Permits

WQM107:pts

cc: Mr. Paul C. Kurisko, P.E.
Mr. Haig Kasabach
Dr. Ernest Regna
Mr. John W. Gaston
Mr. John Isbister
Mr. Robert Vincent

NJD 002 325 074

New Jersey Department of Environmental Protection
Division of Water Resources
Ground Water Discharge Permits
CN-029
Trenton, N.J. 08625
(609) 292-0424

PUBLIC NOTICE

NOV 04 1983

NOTICE: ISSUANCE OF DRAFT NJPDES INITIAL INTERIM PERMIT NJ0005177

Notice is hereby given that:

Lenox China, Inc.
Tilton Road
Pomona, NJ 08240

has applied to the New Jersey Department of Environmental Protection (NJDEP) for a draft Initial Interim IWMF New Jersey Pollutant Discharge Elimination System (NJPDES) permit to discharge a monthly average of 200,000 gallons per day of industrial process wastewater into three infiltration-percolation lagoons which are utilized in a series mode as part of the industrial wastewater treatment system. The wastewater undergoes primar y flocculation in a clarifier where approximately 80 to 95 percent of the particulate matter from the waste stream is removed prior to being discharged into the lagoons as a condition of this permit Lenox China will incorporate a ground water monitoring program that will be in conformance with the RCRA and NJPDES reuglations. This program will also monitor an unlined bas in containing glaze waste and an area where dredged wastes from the industrial treatment process were land applied.

For an existing facility, issuance of the NJPDES permit is the enforcement mechanism by which pollutant discharges are brought into compliance with standards.

This notice is being given to inform the public that NJDEP has prepared a draft NJPDES permit. This draft permit contains conditions necessary to implement the provisions of the "Regulations Concerning the New Jersey Pollutant Discharge Elimination System" (N.J.A.C. 7:14A-1 et seq.), which were promulgated pursuant to the authority of the New Jersey "Water Pollution Control Act" (N.J.S.A. 58:10A-1 et seq.), "Solid Waste Management Act" (N.J.S.A. 13:1E-1 et seq.) and the "Pretreatment Standards for Sewage" (N.J.S.A. 58:11-49 et seq.).

The draft permit prepared by NJDEP is based on the administrative record which is on file at the offices of the NJDEP, Division of Water Resources, located at 1474 Prospect Street in the Township of Ewing, Mercer County, New Jersey. It is available for inspection, by appointment, between 8:30 a.m. and 4:00 p.m., Monday through Friday. Appointments for inspection may be scheduled by calling (609) 984-4428.

Interested persons may submit written comments on the draft permit to the Administrator, Water Quality Management, at the address cited above. All comments shall be submitted within 30 days of the date of this public notice. All persons, including applicants, who believe that any condition of this draft permit is inappropriate or that the Department's tentative decision to issue this draft permit is inappropriate, must raise all reasonably ascertainable issues and submit all reasonably available arguments and factual grounds supporting their position, including all supporting material, by the close of the public comment period. All comments submitted by interested persons in response to this notice, within the time limit, will be considered by the NJDEP with respect to the permit application. At the close of the public comment period, the Department will issue or deny the permit. The Department will respond to all significant and timely comments when a final permit is issued. The applicant and each person who has submitted written comments will receive notice of NJDEP's final decision.

Any interested person may request in writing that NJDEP hold a non-adversarial public hearing on the draft permit. This request shall state the nature of the issues to be raised in the proposed hearing and shall be submitted within 30 days of the date of this public notice to the Administrator, Water Quality Management at the address cited above. A public hearing will be conducted whenever the NJDEP determines that there is a significant degree of public interest in the permit decision. If a public hearing is held, the public comment period in this notice shall automatically be extended to the close of the public hearing.

Arnold Schiffman
Administrator
Water Quality Management

WQM112-A/PN1:lml

FACT SHEET

FOR N.J.P.D.E.S. INITIAL INTERIM INDUSTRIAL WASTE MANAGEMENT FACILITY PERMIT TO DISCHARGE INTO THE GROUND WATERS OF THE STATE

Name and Address of Applicant:

Lenox China, Inc.
Tilton Road
Pomona, New Jersey 08240

Name and Address of Facility Where Discharge Occurs:

Lenox China, Inc.
Tilton Road
Lot No. 1 Block 453
Pomona, New Jersey 08240

Receiving Water:

Ground Waters of the State. The discharge is to the Cohansey Forma tion of Tertiary Age.

Location of Discharge:

The three infiltration-percolation lagoons which are utilized as part of the industrial wastewater treatment process are all located on Lenox China, Inc.'s property. The site is situated east of Tilton Road southeast of Prague Avenue and southwest of Aloe Street in Galloway Township.

Description of Discharge:

Lenox China, Inc. manufactures fine china at its facility on Tilton Road in Pomona. The china is made by combining clay and aluminio-silicates then firing the piece in a furnace. A coat of glaze of lead glass is then applied to the finished piece.

Wastewater from this process is first mixed and flocculated with calcium sulfate in the equalization sump and then sent to the clarifier where most of the particular matter is removed. From the clarifier the liquid waste stream goes to the unlined slip basin. This basin functions as the primary clarifier. Next the wastewater is pumped to the polishing lagoon, which is also unlined for additional sedimentation. Finally, the wastewater is transferred to the unlined Tilton Road pond where it mixes with the effluent from the sanitary wastewater treatment plant. This pond has a discharge into a culvert which goes under Tilton Road and into a stormwater ditch which flows north to an eventual discharge into a feeder of Babcock Creek.

Southeast of the slip basin is the glaze basin which received process wastewater from 1954 to 1970. The waste was a mixture of

clay, lead carbonate silica and low solubility lead compounds. The waste from this basin is being recovered and recycled and the basin is expected to enter into closure proceedings in the near future. This basin is included in the overall waste management area as is the area immediately northeast of the slip basin. Sludge dredged from the bottom of the slip basin was land applied to this area during the early 1970's.

Permit Conditions

Issue an initial interim permit with the attached special and general conditions.

WQM112-A/GWM3:lml

Let's protect our earth

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
CN 402
Trenton, N. J. 08625

PERMIT *

The New Jersey Department of Environmental Protection grants this permit in accordance with your application, attachments accompanying same application, and applicable laws and regulations. This permit is also subject to the further conditions and stipulations enumerated in the supporting documents which are agreed to by the permittee upon acceptance of the permit.

Permit No.	Issuance Date	Effective Date	Expiration Date
NJ0005177			

Name and Address of Applicant	Location of Activity/Facility	Name and Address of Owner
Lenox China, Inc. Tilton Road Pomona NJ 08240	Lenox China, Inc. Tilton Road - Pomona Galloway Township Lot 1, Block 453	SAME AS APPLICANT

Issuing Division	Type of Permit	Statute(s)	Application No.
[X] Water Resources [ ] Coastal Resources [ ] Environmental Quality [ ] Other	NJPDES Initial Interim Permit for Discharge to Ground Water - IWMF	N.J.S.A. 58:10A-1 et seq. N.J.A.C. 7:14A-1 et seq.	NA

This permit requires Lenox China, Inc. - Pomona to monitor the ground water quality surrounding their infiltration-percolation lagoons by operating and maintaining 5 ground water monitoring wells according to the specific and general conditions of this Initial Interim NJPDES permit. The Initial Interim NJPDES permit is intended to establish an adequate ground water monitoring program at the above named facility. This permit is only intended to obtain ground water data to evaluate the current status and impact of this facility on ground water. It shall not be construed, nor is it intended to be an approval of any activity that the permittee has conducted which adversely effects the environment, ground or surface water quality, or threatens the public health, safety, or welfare.

The issuance of this Initial Interim permit does not indicate that the Department has made a determination of the technical adequacy of the information available. Initial Interim permits shall not be construed as, nor are they intended to be, long-term approvals; these permits are of limited duration.

The data generated through the Initial Interim NJPDES permit will be used by the Department to evaluate the current status and impact of existing facilities on ground water quality. It will also give the Department information to determine if there is any potential or actual threat to public health or safety or damage to the environment due to current or past practices. Based on the information generated by the issuance of this permit, the Department may require the permittee to reduce the quantity of discharge, upgrade or install additional treatment, install additional monitor wells, conduct ground water decontamination procedures or cease discharges to waters of the state.

The issuance of this Initial Interim NJPDES permit does not bind the Department to renew this permit, nor does it relieve the permittee of the duty to submit additional information as specified in Chapters 6 and 10 of the NJPDES regulations at the time of application renewal or as may be required by the Department prior to permit renewal. Additionally, this Initial Interim NJPDES permit does not relieve the permittee of any liabilities associated with public health or safety problems or environmental damage created as a result of the permittee's activities.

Documents attached hereto shall become part of this permit.

Approved by the Department of Environmental Protection

_____ _____
DATE

Arnold Schiffman, Administrator
Water Quality Management

The word permit means "approval, certification, registration, etc."

(GENERAL CONDITIONS ARE ON THE REVERSE SIDE.

Form DEP-007
2/82

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

GENERAL CONDITIONS FOR ALL NJPDES DISCHARGE PERMITS

1. Duty to Comply

A. The permittee shall comply with all conditions of this permit. No pollutant shall be discharged more frequently than authorized or at a level in excess of that which is authorized by the permit. The discharge of any pollutant not specifically authorized in the NJPDES permit shall constitute a violation of the permit, unless the permittee can prove by clear and convincing evidence that the discharge of the unauthorized pollutant did not result from any of the permittee's activities which contribute to the generation of its wastewaters. Any permit noncompliance constitutes a violation of the State Act or other authority of these regulations and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

B. A permittee shall not achieve any effluent concentration by dilution. Nor shall a permittee increase the use of process water or cooling water or otherwise attempt to dilute a discharge as a partial or complete substitute for adequate treatment to achieve permit limitations or water quality standards.

C. The permittee shall comply with applicable effluent standards or prohibitions established under Section 307 (a) of the Federal and Section 4 of the State Act for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

D. The State Act provides that any person who violates a permit condition implementing the State Act is subject to a civil penalty not to exceed $10,000 per day of such violation. Any person who willfully or negligently violates permit conditions implementing the State Act is subject to a fine of not more than $25,000 per day of violation, or by imprisonment for not more than 1 year, or both.

E. The permittee is required to comply with all other applicable federal, state and local rules, regulations, or ordinances. The issuance of this permit shall not be considered as a waiver of any other requirements.

2. Duty to Reapply

A. If the permittee wishes to continue an activity regulated by a NJPDES permit after the expiration date of the permit, the permittee shall apply for and obtain a new permit. (If the activity is to be continued, the permittee shall complete, sign, and submit an application no later than 180 days before the expiration date.)

B. Permit applications shall be signed as follows:

(1) For a corporation, by a principal executive officer of at least the level of vice president;

(2) For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or

(3) For a municipality, State, Federal, or other public agency, by either a principal executive officer or ranking elected official. The person signing the application must provide the certification required by N.J.A.C. 7:14A-2.4(d).

3. Duty to Halt or Reduce Activity

A. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

B. Upon reduction, loss, or failure of the treatment facility, the permittee shall, to the extent necessary to maintain compliance with its permit, control production or discharges or both until the facility is restored to its permitted limits or an alternative method of treatment is provided. This requirement applies, for example, when the primary source of power of the treatment facility fails or is reduced or lost.

4. Duty to Mitigate

A. The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit, including but not limited to accelerated and/or additional types of monitoring, temporary repairs or other mitigating measures.

5. Proper Operation, Maintenance and Licensing

A. The permittee shall at all times maintain in good working order and operate as efficiently as possible all treatment works, facilities, and systems of treatment and control (and related appurtenances) for collection and treatment which are installed or used by the permittee for water

pollution control and abatement to achieve compliance with the terms and conditions of the permit. Proper operation and maintenance includes but is not limited to effective performance based on designed facility removals, adequate funding, effective management, adequate operator staffing and training and adequate laboratory and process controls including appropriate quality assurance procedures as described in 40 CFR 136 and applicable State Law and regulations. All permittees who operate a treatment works, except for sanitary landfills and land application of sludge or septage, must satisfy the licensing requirements of the "Licensing of Superintendents or Operators of Public Water Treatment Plants, Public Sewage Treatment Plants and Public Water Supply Systems" N.J.S.A. 58:11-18.10 et seq. or other applicable law. This provision requires the operation of back-up or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit or where required by applicable law or regulation.

6. Permit Actions

A. This permit may be modified, suspended, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

B. Causes for modification, revocation and reissuance, and suspension are set forth in N.J.A.C. 7:14A-2.12 et seq.

C. The following are causes for terminating or modifying a permit during its term, or for denying a permit renewal application:

(1) Noncompliance by the permittee with any condition of the permit;

(2) Failure to pay applicable fees;

(3) The permittee's failure in the application or during the permit issuance process of a NPDES, DAC, NJPDES, Treatment Works Approval or Construct and Operate permit to disclose fully all relevant facts, or the permittee's misrepresentation of any permit condition;

(4) A determination that the permitted activity endangers human health or the environment and can only be regulated to acceptable levels by permit modification or termination;

(5) When there is a change in any condition that requires either a temporary or a permanent reduction or

elimination of any discharge controlled by the permit (for example, plant closure or termination of discharge by connection to a DTW);

(6) The nonconformance of the discharge with any applicable facility, basin or areawide plans; or

(7) If such permit is inconsistent with any duly promulgated effluent limitation, permit, regulation, statute, or other applicable state or federal law.

7. Property Rights

A. This permit does not convey any property rights of any sort or any exclusive privileges.

8. Duty to Provide Information

A. The permittee shall furnish to the Director, within a reasonable time, any information which the Director may request to determine whether cause exists for modifying, suspending, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Department, upon request, copies of records required to be kept by this permit.

B. Where the permittee becomes aware that he has failed to submit any relevant facts in a permit application, or has submitted incorrect information in a permit application or in any report to the Department, the permittee shall promptly submit such facts or information.

9. Inspection and Entry

A. The permittee shall allow the Regional Administrator of the USEPA, the Department (NJDEP), or any authorized representative(s), upon the presentation of credentials and other documents as may be required by law, to:

(1) Enter upon the permittee's premises where a discharge source is or might be located or in which monitoring equipment or records required by a permit are kept, for purposes of inspection, sampling, copying or photographing. Photography shall be allowed only as related to the discharge;

(2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

(3) Inspect, at reasonable times, any facilities, equipment (including monitoring and control

equipment), practices, or operations regulated or required under this permit; and

(4) Sample or monitor, at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the State Act, any substances or parameters at any location. This shall include, but not be limited to the drilling or installation of monitoring wells for the purpose of obtaining samples of ground water soil and vegetation and measuring ground water elevations.

B. Any refusal by the permittee, facility land owner(s), facility lessee(s), their agents, or any other person(s) with legal authority, to allow entry to the authorized representatives of the DEP and/or EPA shall constitute grounds for suspension, revocation and/or termination of this permit.

C. By acceptance of this permit, the permittee hereby agrees, consents and authorizes the representatives of the NJDEP and/or USEPA to present a copy of this permit to any Municipal or State Police officer having jurisdiction over the premises occupied by the permittee in order to have said officer effectuate compliance with the right of entry, should the permittee at any time refuse to allow entry to said inspectors.

D. By acceptance of this permit, the permittee waives all rights to prevent inspections by authorized representatives of the NJDEP and/or USEPA to determine the extent of compliance with any and all conditions of this permit and agrees not to, in any manner, seek to charge said representatives with the civil or criminal act of trespass when they enter the premises occupied by the permittee in accordance with the provisions of this authorization as set forth hereinabove.

10. Monitoring and Records

A. The permittee shall install and maintain ground water monitoring wells required by this permit at locations and according to specifications provided by the Department. The monitoring wells shall provide turbidity-free water at a minimum rate of two gallons per minute.

When a monitoring well cannot be used for the purpose of sample collection or ground water level measurements, the permittee shall replace the well at his own expense within 30 days of the missed sampling and/or measurement date. Monitoring wells as required in this permit shall be considered as a monitoring device, which are required to be maintained under the provisions of the New Jersey Water Pollution Control Act N.J.S.A. 58:10A-10(f).

All monitoring wells must be installed by a New Jersey licensed Well Driller. The elevation to the nearest hundredth of a foot of the top of each well casing shall be established by a New Jersey licensed Land Surveyor within 30 days of the installation of the monitor wells. The elevation established shall be in relation to the New Jersey Geodetic Control datum. Ground water monitoring wells and all point source discharges to ground water shall be located by horizontal control (latitude and longitude) using third order work, Class II specification and by vertical control (elevation) using third order work.

Each ground water monitoring well casing shall have permanently affixed to it a monitor well number to be assigned by the Department, elevation of the top of the well casing, elevation of the top of the well casing above the ground level and latitude and longitude of the monitoring well.

B. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

C. The State Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of no more than $10,000 per violation, or by imprisonment for not more than 6 months per violation, or by both. This is specifically intended to include ground water monitoring wells and lysimeters.

D. The applicant shall perform all analyses in accordance with the analytical test procedures approved under 40 CFR Part 136. Where no approved test procedure is available, the applicant must indicate a suitable analytical procedure and must provide the Department with literature references or a detailed description of the procedure. The Department must approve the test procedure before it is used. The laboratory performing the analyses for compliance with this permit must be approved and/or certified by the Department for the analysis of those specific parameters.

E. The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 5 years from the date of the sample, measurement, report or application. This period may be extended by request of the Department at any time.

F. Records of monitoring information shall include:

(1) The date, exact place, and time of sampling or measurements;

(2) The individual(s) who performed the sampling or measurements;

(3) The date(s) analyses were performed;

(4) The individual(s) who performed the analyses;

(5) The analytical techniques or methods used;

(6) The results of such analyses;

(7) Monitoring results shall be reported on a Discharge Monitoring Report (DMR) and/or on the Department's Monitoring Report Form (MRF); or, where these forms do not apply, in another format approved by the Department;

(8) If the permittee monitors any pollutant more frequently than required by the permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or MRF; and

(9) Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Department in the permit.

G. Discharge Monitoring Reports

(1)* Monitoring results obtained during the previous three month(s) shall be summarized and reported on the appropriate Monitoring Report Forms, postmarked no later than the 10th day of the month following the completed reporting period. The first report is due on May 10,1984 . Signed copies of these, and all other reports required herein, shall be submitted to the following address(es):

Water Quality Management
Division of Water Resources
CN 029
Trenton, New Jersey 08625

(2) If a contract laboratory is utilized, the permittee shall submit the name and address of the laboratory and the parameters analyzed at the time it submits its monitoring reports (See Section 10.F. above). Any change in the contract laboratory being used or the parameters analyzed shall be reported prior to or

* This applies to ground water discharge monitoring. SEparate monitoring under the existing surface water discharge permit shall continue as before.

together with the monitoring report covering the period during which the change was made.

H. Monitoring Reports. Monitoring results shall be reported at the intervals specified in the permit.

I. Compliance Schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

.1. Signatory Requirement

A. Signature Requirements. All permit applications, except those submitted for Class II wells for a UIC discharge (see paragraph B) shall be signed as follows:

(1) For a corporation, by a principal executive officer of at least the level of vice president;

(2) For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or

(3) For a municipality, State, Federal or other public agency, by either a principal executive officer or ranking elected official. The person signing the application must provide the certification required by N.J.A.C. 7:14A-2.4(d).

B. Reports. All reports required by permits, other information requested by the Department and all permit applications submitted for Class II wells under N.J.A.C. 7:14A-5.8 shall be signed by a person described in paragraph A of this section or by a duly authorized representative only if:

(1) The authorization is made in writing by a person described in paragraph A of this section;

(2) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as a position of plant manager, operator of a well or well field, superintendent or person of equivalent responsibility; and

(3) The written authorization is submitted to the Department.

C. Changes to Authorization. If an authorization under paragraph B of this section is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization

satisfying the requirements of paragraph B of this section shall be submitted to the Department prior to or together with any reports, information, or applications to be signed by an authorized representative.

D. Certification. Any person signing any document under paragraph A or B of this section shall make the following certification: "I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

E. False Statements. Any person who knowingly makes a false statement, representation, or certification in any application, record, or other document filed or required to be maintained under the State Act shall upon conviction, be subject to a fine of not more than $10,000.00 or by imprisonment for not more than 6 months or by both.

12. Reporting Changes and Violations

A. Planned Changes. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. The permittee shall comply with N.J.A.C. 7:14A-12.1 et seq. which requires approval for building, installing, modifying, or operating treatment works. (NOTE: Sewer Extensions require such an approval. A connection of a single building through which less than 2000 gpd flows by gravity is exempt from the requirement to obtain the approval of this Department.). Permitting the construction of a sewer extension without this Department's approval will be a violation of this permit.

B. Anticipated Noncompliance. The permittee shall give reasonable advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

13. Reporting Noncompliance

A. The permittee shall report any noncompliance which may endanger health or the environment. The permittee shall provide the Department with the following information:

(1) A description of the discharge;

(2) Steps being taken to determine the cause of noncompliance;

(3) Steps being taken to reduce and eliminate the noncomplying discharge;

(4) The period of noncompliance, including exact dates and times. If the noncompliance has not been corrected, the anticipated time when the discharge will return to compliance;

(5) The cause of the noncompliance; and

(6) Steps being taken to reduce, eliminate, and prevent reoccurence of the noncomplying discharge.

B. The permittee shall orally provide the information in A.(1) through (3) to the DEP Hotline (609) 292-7172 within 2 hours from the time the permittee becomes aware of the circumstances.

C. The permittee shall orally provide the information in A.(4) through A.(5) to the DEP Hotline within 2 hours of the time the permittee becomes aware of the circumstances.

D. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain the information in A.(1) through A.(6).

Additional Reporting Requirements

The following shall be reported to the Department in accordance with N.J.A.C. 7:14A-2.5(l)6:

E. In the case of any discharge subject to any applicable toxic pollutant effluent standard under Section 307(a) of the Federal Act or under Section 6 of the State Act the information required by paragraph 9(d)(i)(1) through (3) regarding a violation of such standard shall be provided to the Department within 2 hours from the time the permittee becomes aware of the circumstances. The information required by paragraph 9(d)(i)(4) through (6) shall be provided to the Department within 24 hours from the time the permittee becomes aware of the circumstances. Where the information is provided orally, a written submission covering these points must be provided within five working days of the time the permittee becomes aware of the circumstances covered by this paragraph.

F. In the case of other discharges which could constitute a threat to human health, welfare, or the environment, including but not limited to, discharge of pollutants designated under Section 311 of the Federal Act, under Section 6 of the State Act, under the "Spill Compensation and Control Act", N.J.S.A. 58:11-23.10 et seq., or under the "Safe Drinking Water Act", N.J.S.A. 58:12A-1 et seq., the information required by paragraph 9(d)(i)(4) through

(6) shall be provided to the Department within 24 hours from the time the permittee becomes aware of the circumstances. Where the information is provided orally, a written submission covering these points must be provided within five working days of the time the permittee becomes aware of the circumstances covered by this paragraph.

G. The information required in section 13 shall be provided to the Department within 2 hours where a discharge described under paragraphs 27.A or 27.B is located upstream of a potable water intake or well field. The information required by 9(d)(i)(1) through (6) shall be provided to the Department within 24 hours. If this information is provided orally, a written submission covering these points must be provided within five days of the time the permittee becomes aware of the discharge.

H. Any bypass which violates any effluent limitations in the permit shall be reported within 24 hours unless paragraphs 24.A through 24.C are applicable. (See Section 28.)

I. Any upset which violates any effluent limitation in the permit shall be reported within 24 hours unless paragraphs 25.B (1) through 25.B (3) are applicable.

J. Violation of a maximum daily discharge limitation for any of the pollutants listed by the Department in the permit shall be reported within 24 hours unless paragraphs 25.B (1) through 25.B (3) are applicable (See N.J.A.C. 7:14A-3.13(g)).

14. Other Noncompliance

A. The permittee shall report all instances of noncompliance not reported under paragraph D. of section 13, at the time monitoring reports are submitted. The reports shall contain the information required in the written submission listed in paragraph D. of section 13.

15. RESIDUALS MANAGEMENT

A. Collected grit and screenings, scums, sand bed sands, slurries, and sludges, and all other solids from the treatment process shall be disposed of in such a manner as to prevent such materials from entering the ground and/or surface waters of the state except in accordance with a NJPDES permit. If for any reason such materials are placed in the water or on the lands where they may cause pollutants to enter the ground and/or surface waters of the state, the following information shall be reported to the Water Resources Enforcement Element together with the monitoring monitoring data required in Part I, B.2:

1. Dates of occurrence;

2. A description of the noncomplying discharge (nature and volume);

3. Cause of noncompliance;

4. Steps taken to reduce and eliminate the noncomplying discharge; and

5. Steps taken to prevent recurrence of the condition of noncompliance.

B. Permittee shall not be permitted to store sludge on-site. And such instances must be reported to the Water Resources Enforcement Element within twenty-four (24) hours.

C. The permittee shall comply with the Sludge Quality Assurance Regulations (N.J..A.C. 7:14-4.1 et seq.). Where quality information is required by these regulations analyses must reflect the quality of the final sludge product of which the permittee must dispose.

D. The permittee shall dispose of sludge from this facility in compliance with the New Jersey Solid Waste Management Act, N.J.S.A. 13:1E-1 et seq., which, among other things requires conformance with Statewide and District Sludge Management Plans and prohibits the disposal of bulk liquids (including but not limited to sludge) in landfills unless the landfill is lined and an approved leachate interception, collection, and treatment system has been installed.

E. The permittee shall at all times have on file with the department proof of proper disposal at a facility duly licensed and permitted by the state to dispose of sludge. To satisfy this requirement the permittee shall submit proof of ownership or contractual arrangement with a permitted facility for the composting, land application, thermal reduction, or landfilling of sludge.

Where such permitted sludge disposal does not extend the full term of this permit, the permittee shall submit similar proof of new permitted disposal arrangements which shall become effective no later than the expiration date of previous arrangements. All such proofs of disposal site must be submitted to the Bureau of Permits Administration in duplicate.

F. Where this permit is a reissuance of a permit held on a facility approved for operation prior to March 6, 1982, item (1) below shall apply. Where this permit is issued to a facility approved for operation after March 6, 1982, item (2) below shall apply:

(1) By issuance of this permit the department hereby gives the permittee notice that the permittee is

bound by the New Jersey Pollutant Discharge Elimination System regulations regarding proper sludge disposal (section 2.5(m)). Possession of this permit in no way waives requirements under this section of the regulations for submission of information regarding termination of landfill disposal of sludge by March 15, 1985.

(2) Where the permittee files with the department under permit condition E. above proof of sludge disposal in a licensed landfill for sludge disposal, within six (6) months of the date of issuance of this permit the permittee shall submit to the department a statement of the following:

a. Justification for the continuance of the disposal of sludge in a landfill.

b. A description of the steps being taken to comply with the March 15, 1985 deadline for abandonment of landfilling for the disposal of sludge.

c. The manner in which solid sludge will be disposed of until March 15, 1985.

G. The permittee shall comply with the Rules and Regulations for the Statewide Management of Septage Disposal (N.J.A.C. 7:14-5.1 et seq.).

H. The permittee shall conform with the requirements under:

(1) Section 405 of the Federal Act governing the disposal of sewage sludge from publicly owned treatment works with Sections 4 and 6 of the State Act.

(2) To the extent practicable, the "Guidelines for the Utilization and Disposal of Municipal and Industrial Sludges and Septage"; and

(3) The provisions concerning the disposal of sludge in sanitary landfills which will be developed in the Statewide Sludge Management Plan promulgated pursuant to the "State Solid Waste Management Act," N.J.S.A. 13:1E-1 et seq.

16. Discharge Permitted

A. The permittee shall discharge to surface waters, land or ground waters of the State only as authorized herein and consistent with the terms and conditions of this permit.

17. Operation Restrictions

A. The operation of a waste treatment or disposal facility shall at no time create: (1) a direct discharge to surface

waters of the State, except as authorized by NJDEP; (2) a persistent standing or ponded condition for water or waste on the permittee's property, or (3) any standing or ponded condition for water or waste on adjacent properties unless these activities are specifically included within the permit.

18. Facilities Operation and Operator Certification

The operation of the treatment works shall be under the supervision of an operator on the first day of operation of the sewage treatment plant and continually thereafter in accordance with N.J.A.C. 7:14A-2.5(e). The operator shall meet the requirements of the Department of Environmental Protection of the State of New Jersey for S-IN (classification) or equivalent, pursuant to the provisions of N.J.S.A. 58:11-18.22 and amendments thereto. The name of the proposed operator shall be submitted to this Department in order that his qualifications may be determined prior to initiating operator of the proposed treatment works.

19. Permit Modification, Suspension, or Revocation

A. A permit may be modified, suspended or revoked by the Department, in the event of a violation of the terms or conditions of the permit, or State Laws and Regulations and in accordance with the procedures set forth in NJPDES Regulations Subchapter 12.12(b)(1)(2)(3)(4).

B. A permit may be modified by the Department in accordance with and for the reasons set forth in Subchapter 2.12(a) of NJPDES Regulations.

C. If a toxic effluent standard or prohibition is established pursuant to New Jersey Water Pollution Control Act N.J.S.A. 58:10A-1 et seq. or the regulations adopted pursuant to it, for a toxic pollutant which is present in the discharge, and such is more stringent than any limitation for such pollutant in this permit, this permit shall be revised or modified in accordance with the toxic effluent standard or prohibition and the permittee so notified of the revision or modification and date of required compliance.

20. Civil and Criminal Liability

A. Nothing in this permit shall be deemed to preclude the institution of any legal action nor relieve the permittee from any responsibilities or penalties to which the permittee is or may be subject to under any Federal, Local or other State law or regulation.

21. Severability

A. The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

22. Permit Expiration

A. This permit and the authorization to discharge shall expire at midnight on the expiration date of the permit. The permittee shall not discharge after the above date of expiration of the permit. In order to receive authorization to discharge after the above date of expiration, the permittee shall submit such information, forms, and fees as are required by the Department no later than 180 days prior to the above date of expiration.

23. Transfer of Permit

A. Transfer of Ownership. This permit is valid only for use by the permittee and may not be transferred to another unless written permission for such transfer is obtained from the Department. In the event of any change in control or ownership of facilities from which the authorized discharge emanates, the permittee shall notify, in writing, the succeeding owner or controller of the facility of the existence of this permit and any outstanding violations of this permit. A copy of this notification shall be forwarded to the Department within 30 days prior to said change in control of ownership.

B. Transfer by Modification. Except as provided in paragraph (13.F) of this section, a permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued (under Section 2.12(c)2.) or a minor modification made (under Section 2.14(d) of the regulations), to identify the new permittee and incorporate such other requirements as may be necessary under the State and Federal Acts.

C. Automatic Transfers. As an alternative to transfers under paragraph (23.A) of this section, any NJPDES permit, except a UIC permit for a well injecting hazardous waste, may be automatically transferred to a new permittee if:

(1) The current permittee notified the Department in writing by certified mail of the proposed transfer as follows:

a. Where production levels, products produced, rates of discharge, and wastewater characteris-

tics will remain unchanged, the following information shall be submitted at least 90 days prior to a proposed transfer date:

(1) Name and address of current facility;

(2) Name and address of new owners;

(3) NJPDES permit number;

(4) Names of the new principal persons responsible;

(5) Names of persons upon whom legal process can be served; and

(6) A notarized statement signed by the new principal officer stating that he has read the NJPDES permit and agrees to abide by all the conditions of the permit and that the production levels, products produced, rates of discharge, and wastewater characteristics will remain unchanged.

b. Where there will be a change in production levels, products produced, rates of discharge, or wastewater characteristics, the information required in paragraph 23.C(1)(a) shall be submitted at least 180 days prior to a proposed transfer date.

(2) The current permittee shall include in the notice of proposed transfer a written agreement between the existing and new permittee which includes a specific date for transfer of permit responsibility, coverage, and liability between the parties. In the case of a UIC permit, the notice shall demonstrate that the financial responsibility requirements of 5.10(g) of the regulations will be met by the new permittee;

(3) The Department does not notify the existing permittee and the proposed new permittee, within thirty (30) days of receipt of notice of proposed transfer, of an intent to modify, revoke or revoke and reissue the permit or, for a discharge to surface water (DSW), require a DAC. A modification under this paragraph may also be a minor modification under Section 2.14. If such notice is not received, the transfer is effective on the date specified in the agreement mentioned in paragraph 23.C(2) of this section; and

(4) Whenever the regulated discharge has ceased prior to the proposed permit transfer, any compliance schedule shall not be automatically reinstated but shall be subject to revision or complete withdrawal if circumstances leading to its imposition have changed.

24. Bypass

A. Bypass not exceeding limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it is also for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of paragraphs a. and b. of this section.

B. Notice

(1) Anticipated Bypass. If the permittee knows in advance of the need for a bypass, he shall submit prior notice, if possible, at least thirty (30) days before the date of the bypass.

(2) Unanticipated Bypass. The permittee shall submit notice of an unanticipated bypass as required in paragraph I of Section 13.

C. Prohibition of Bypass

(1) Bypass is prohibited, and the Department may take enforcement action against a permittee for bypass unless:

a. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

b. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if the permittee could have installed adequate backup equipment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and

c. The permittee submitted notices as required under paragraph 13.I of this section.

(2) The Department may approve an anticipated bypass, after considering its adverse effects, if the Department determines that it will meet the three conditions listed above in paragraph 24.C.(1) of this section.

25. Upset

A. Effect of An Upset. An upset may constitute an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitations if the requirements of paragraph 25.B of this section are met. Where no determination was made during administrative review of claims that noncompliance was caused by upset, and there has been no Departmental action for noncompliance, the lack of such determination is final administrative action subject to judicial review.

B. Conditions Necessary for A Demonstration of Upset. A permittee who wished to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

(1) An upset occurred and that the permittee can identify the specific cause(s) of the upset;

(2) The permitted facility was at the time being properly operated;

(3) The permittee submitted notice of the upset as required in paragraph I. of section 13; and

(4) The permittee complied with any remedial measures required under N.J.A.C. 7:14A-2.5(d).

C. Burden of Proof. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

26. Emergency Plan

A. The permittee shall submit an emergency plan report prepared pursuant to paragraph 26.B or file for an exemption as provided in paragraph 26.E by 45 days from EDP*

(1) When a person has prepared an emergency plan required by other regulations, such plan or plan and any amendments necessary to meet the requirements of this section may be submitted and deemed to satisfy the requirements of this section provided:

a. The plan meets the requirements of this section; and

b. The plan indicates where it satisfies each requirement of this section.

(2) The Department shall review the emergency plan at the time of the DSW or DGW renewal to determine the adequacy of such plan based upon:

a. Modification of the facility; and

b. Any other conditions related to the plan which have changed.

(3) The permittee shall submit emergency plans according to the following schedule:

a. All domestic treatment works with an average daily flow which is less than 0.1 MGD shall file a complete emergency plan by March 6, 1983; and

* Effective Date of Permit

b. All domestic treatment works with an average daily flow which is equal to, or greater than 0.1 MGD shall file a complete emergency plan by March 6, 1984.

(4) Within three months of notice of deficiency the permittee shall correct any deficiencies in the Emergency Plan and resubmit the Plan for incorporation in the DSW or DGW permit.

B. The Emergency Plan report shall be designed to insure effective operation of the facility under emergency conditions, and shall consist, as a minimum, of the following comments:

(1) A vulnerability analysis which shall estimate the degree to which the facility would be adversely affected by each type of emergency situation which could reasonably be expected to occur, including but not limited to those emergencies caused by natural disaster, civil disorder, strike, sabotage, faulty maintenance, negligent operation or accident.

(2) The analysis shall include, but is not limited to, an estimate of the effects of the emergency upon the following:

a. Power supply;
b. Communication;
c. Equipment;
d. Supplies;
e. Personnel;
f. Security; and
g. Emergency procedures.

(3) An evaluation of the possible adverse effects on public health and the environment due to this emergency.

(4) An emergency operating plan and a manual of procedures for the implementation of such plan, including procedures for the notification of any relevant regulatory agency, affected water supply purveyors, and any other municipal authority or agency. The plan and manual shall address each of the emergency situations described in the vulnerability analysis.

C. Any domestic treatment works which meets the following criteria is eligible for an exemption from the requirements of this section:

(1) A DTW which has an average daily flow of 0.1 MGD or less and which receives and treats domestic wastes only; or

(2) A DTW which has an average daily flow which exceeds 0.1 MGD but which is less than 1.0 MGD and which satisfies all of the following conditions:

a. Does not receive or treat industrial pollutants from an indirect discharger which belongs to one or more of the industrial categories listed in Appendix E of the "Regulations Concerning the New Jersey Pollutant Discharge Elimination System";

b. Does not discharge any effluent upstream from a potable water intake;

c. Does not discharge any effluent into a shellfish area; and

d. Does not discharge any effluent which may affect shellfish areas.

D. Any industrial treatment works which meets the criteria of N.J.A.C. 7:14A-3.12(d) is eligible for an exemption from the requirements of this section.

E. Filing for an Exemption

(1) Any permittee whose treatment works is eligible for an exemption pursuant to paragraph 26.C or 26.D shall file for an exemption according to the schedule in paragraph 26.A.

(2) The permittee shall submit an affidavit affirming that the discharge(s) from that facility satisfies all of the applicable criteria in paragraph 26.C or 30.D.

(3) The signatory of the affidavit shall satisfy the requirements of N.J.A.C. 7:14A-2.4.

(4) If the quality and/or quantity of the discharge(s) from the facility changes in such a manner that the facility no longer qualifies for an exemption, the permittee shall notify the Department of the changes, in writing, within thirty (30) days of such change.

(5) The permittee shall submit an emergency plan report as described in paragraph 26.B to the Department within six months of the initial notification required in paragraph 26.E (4).

F. Implementation of the Emergency Plan

(1) After receipt and review of the emergency plan, the Department shall notify the permittee in writing whether the emergency plan is acceptable and complete. Plans should, to the extent practicable, conform to the EPA document entitled, "Emergency Planning for Municipal Wastewater Treatment Facilities", (EPA-403/9-74-013).

(2) Existing facilities shall comply with the following schedule for implementation of the emergency plan:

a. Within 60 days of acceptance of the plan by the Department:

(1) The permittee shall complete implementation of the procedural portions of the plan; and

(2) The Department shall incorporate the procedural elements of the plan into the DSW or DGW permit for that facility.

b. As soon as possible, but within 36 months of acceptance of the plan by the Department at the latest:

(1) The permittee shall complete the implementation of the structural portions of the plan (such as acquisition of spare parts, pumps, etc.); and

(2) The Department shall incorporate the structural elements and the emergency manual into the DSW or DGW permit for that facility.

G. Liability

(1) Submission of an Emergency Plan pursuant to this section shall not exempt a permittee from liability for violations arising from an emergency situation. A permittee shall take all necessary actions to mitigate the damage to the waters of the State arising from an emergency situation. Such actions shall not be limited by the emergency operating plan and the manual of procedures.

(2) Exemption for development of an Emergency Plan under this section does not exempt the permittee from liability for violations arising from an emergency situation. Such permittee shall take all necessary actions to mitigate the damage to the waters of the State arising from an emergency situation.

H. Violations

(1) Failure to submit an emergency plan in compliance with paragraph A. of this section and failure to implement the emergency plan pursuant to paragraph F. of this section shall each constitute a violation of this permit.

27. Oil and Hazardous Substance Liability

A. The imposition of responsibilities upon, or the institution of any legal action against the permittee under Section 311 of the Federal Act shall be in conformance with regulations promulgated pursuant to Section 311 of the Federal Act governing the applicability of Section 311 to discharges from facilities with NPDES permits.

28. Reopener Clause for Toxic Effluent Limitations

A. Notwithstanding any other condition of this permit, if any applicable toxic effluent standards, limitation or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is promulgated under Sections 301(b)(2)(c) and (d), 304(b)(2), and 307(a)(2) of the Federal Clean Water Act or Sections 4 or 6 of the State Act for a toxic pollutant and that effluent standard limitation or prohibition is more stringent than any limitation of the pollutant in the permit (or controls a pollutant not limited in the permit), this permit shall be promptly modified or revoked and reissued to conform to that effluent standard, limitation or prohibition.

29. Availability of Information

A. NJPDES permits, effluent data, and information required by NJPDES application forms provided by the Regional Administrator or Director (including information submitted on the forms themselves and any attachments used to supply information required by the forms) shall be available for public inspection at the offices of the Director.

B. In addition to the information set forth in Subsection A., any other information submitted to EPA and/or the Department in accordance with the conditions of this permit shall be made available to the public without further notice unless a claim of business confidentiality is asserted at the time of submission in accordance with the procedures in 40 CFR Part 2 (Public Information) and/or Subchapter 11 of the "Regulations Concerning the New Jersey Pollutant Discharge Elimination System."

C. If a claim of confidentiality is made for information other than that enumerated in section 34.B., the information shall be treated by the Department in accordance with the procedures in N.J.A.C. 7:14A-11.1 et seq. Only information determined to be confidential under those procedures shall not be made available by NJDEP for public inspection.

30. Effective Date of A Permit

A. This permit shall become effective in its entirety on the date indicated (Effective Date) on the first page of this permit unless a request for an adjudicatory hearing is granted pursuant to the provisions of N.J.A.C. 7:14A-6.11 et seq.

B. For purposes of judicial review, final agency action on a permit does not occur unless and until a party has exhausted its administrative remedies under N.J.A.C. 7:14A-8.9 et seq. Any party which neglects or fails to seek such review thereby waives its opportunity to exhaust available agency remedies.

31. Duty to Remit Applicable Fees

A. Annual Permit Fee, N.J.A.C. 7:14A-1.9

The permittee shall pay the annual NJPDES permit fee which has been assessed by the Department.

. Definitions

A. Unless otherwise stated, all terms shall be as defined in the "Regulations Concerning the New Jersey Pollutant Discharge Elimination System", N.J.A.C. 7:14A-1 et seq.

(1) "Aliquot" means a sample of specified volume used to make up a total composite sample.

(2) "Composite" means a combination of individual (or continuously taken) samples (aliquots) of at least 100 milliliters, collected at periodic intervals over the entire discharge day. For volatile pollutants, aliquots must be combined in the laboratory immediately before analysis. The composite must be flow proportional; either the time interval between each aliquot or the volume of each aliquot must be proportional to either the stream flow at the time of sampling or the total stream flow since the collection of the previous aliquot. Aliquots may be collected manually or automatically. For a continuous discharge, a minimum of 24 aliquots (at hourly intervals) shall be collected and combined to constitute a 24-hour composite sample. For intermittent discharges of more than 4 hours duration, aliquots shall be taken at a minimum of 30-minute intervals. For intermittent discharges of less than 4 hours duration, aliquots shall be taken at a minimum of 15-minute intervals.

(3) "EDP" means Effective Date of Permit.

(4) "Grab" means an individual sample of at least 100 milliliters collected over a period not exceeding 15 minutes.

(5) "Monthly" means one day each month (the same day each month) and a normal operating day (e.g., the 2nd Tuesday of each month).

(6) "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventative maintenance, or careless or improper operation.

(7) "Weekly" means every seventh day (the same day each week) and a normal operating day.

33. Stay of Conditions, N.J.A.C. 7:14-8.10

A request for an adjudicatory hearing shall not automatically result in a stay of the conditions of this permit.

WQM122-A/GWM:fmm

ADDITIONAL GENERAL CONDITIONS FOR INDUSTRIAL WASTE MANAGEMENT FACILITIES AND HAZARDOUS WASTE INTERIM STATUS FACILITIES

This permit requires that the permittee monitor ground water quality by operating and maintaining ground water monitoring wells according to the specific and general conditions of this Initial Interim NJPDES permit. The Initial Interim NJPDES permit is intended to insure the facility's compliance with Federal and State ground water monitoring requirements for hazardous waste facilities.

This permit is issued for the purpose of obtaining ground water quality data to evaluate the current status and impact of hazardous waste surface impoundments, waste piles, landfills and land treatment units on the ground water. It shall not be construed, nor is it intended to be an approval of any activity that the permittee has conducted which adversely affects the environment, ground or surface water quality or threatens the public health, safety, or welfare.

The issuance of this Initial Interim NJPDES permit does not indicate that the Department has made a determination of the technical adequacy of the information available. Initial Interim permits shall not be construed as, nor are they intended to be, long-term approvals; these permits are of limited duration.

The data generated through this Initial Interim NJPDES permit will be used by the Department to evaluate the facility's compliance with Subchapter 6 of the NJPDES regulations (N.J.A.C. 7:14A-1 et seq.), including Sections 6.1 through 6.6.

The data generated under this permit will also give the Department information to determine if there is any potential or actual threat to public health or safety or damage to the environment due to current or past practices. The Department, based on the information generated by the issuance of this permit, may require the permittee to reduce the quantity of discharge, upgrade or install additional treatment, install additional monitor wells or other ground water monitoring devices, conduct ground water decontamination procedures or cease the discharge to ground water.

The issuance of this Initial Interim NJPDES permit does not bind the Department to renew this permit. Also, this permit does not relieve the permittee from being in compliance with operational requirements for existing hazardous waste facilities, as required under 40 CFR Part 265, and N.J.A.C. 7:26-11 et seq.

This Initial Interim NJPDES permit does not exempt the permittee from being in compliance with any additional State or Federal Hazardous Waste regulations, including N.J.A.C. 7:26-1, 4, 7-12 and N.J.A.C. 7:14A-4 and -11; nor does it exempt the permittee from the requirement to obtain a full RCRA, State Hazardous Waste Permit or NJPDES Permit once their Part B application is requested.

Additionally, this Initial Interim NJPDES permit does not relieve the permittee of any liabilities associated with public health or safety problems or environmental damage created as a result of the permittee's activities.

Documents attached hereto shall become a part of this permit.

1. GROUND WATER MONITORING WELLS

1.1 The permittee shall effectively monitor the operation of the waste management area by operating ground water monitoring wells to detect any ground water contamination from leachate or other on-site discharges. The system of operating ground water monitoring wells shall consist of five* existing satisfactory ground water monitoring wells and three new ground water monitoring wells. Satisfactory ground water monitoring wells are defined in N.J.A.C. 7:14A-6.13 and shall be subject to Department approval. The location and number of ground water monitoring wells as required by this Department, as well as existing wells, is shown on Attachment 1. Ground water monitoring wells shall be located within a ten foot radius of each specified location. If ground water monitoring wells do not meet these standards, they must be replaced with new wells meeting Department standards.

1.2 The ground water monitoring system must be capable of yielding ground water samples for analysis and must, at a minimum, consist of four wells, with a minimum of one hydraulically upgradient and three hydraulically downgradient.

1.2.1 The number, location and depth of monitoring wells installed hydraulically upgradient (i.e., in the direction of increasing static head) from the limit of the waste management area must ensure that samples are representative of background ground water quality at the facility and that the samples are not affected by the waste management area.

1.2.2 The downgradient monitoring wells (i.e., in the direction of decreasing static head) shall be located at the limit of the waste management area. Their number, location and depth must ensure that they: 1. Detect any statistically significant amounts of hazardous waste or hazardous waste constituents that migrate from the waste management area to ground

* Well Nos. 1,4 and the three new wells to be installed shall be monitored in accordance with section 2.7- On-going Ground Water Monitoring. Existing well nos. 2,3 and piezometer no. 5 shall be monitored as shown on Table 3a.

** The new wells shall be installed in the locations shown on Attachment 1.

water of the uppermost aquifer; 2. Detect any violations of the State Ground Water Quality Standards; or 3. Detect any violations of ground water quality imposed through permit conditions, including effluent limitation violations. The waste management area shall be defined as:

a. Where a waste facility consists of only one hazardous waste surface impoundment, waste pile, landfill or land treatment unit, the waste management area is described by the waste boundary (perimeter).

b. Where a facility consists of more than one hazardous waste surface impoundment, waste pile, landfill or land treatment unit, the waste management area is described by an imaginary line which circumscribes the several waste management components.

1.2.3 The permittee must submit to the Department data showing that the location and depth of the wells meet the requirements of conditions 1.2.1 and 1.2.2 of this permit. This shall include all hydrogeologic studies done to insure proper well construction, location and sampling depths. This must be submitted to the Department within thirty (30) days of the Effective Date of this permit.

The design, location, depth and number of all monitoring wells are to be approved by the Department prior to construction of any new wells.

1.3 All existing and proposed ground water monitoring wells shall meet the following requirements:

1.3.1 A Ground Water Monitoring Well Certification Form - (A and B) must be completed for each existing and proposed ground water monitoring well. Information for each well must be shown on a separate well completion form. The form entitled, "Ground Water Monitoring Well Certification, Form A - As Built Construction Certification", must be signed and sealed by a New Jersey Professional Engineer. Form B, "Location Certification" must be signed and sealed by a licensed New Jersey Land Surveyor. For an existing well, if information required on the well completion form cannot be determined or if the well is not adequately constructed to meet the requirements of this permit, the Department reserves the right to require additional or replacement well(s) to be drilled. Criteria to be used by the Department in judging the adequacy of a well will be related to the ability of the well to provide a representative ground water sample at any time of the year as specified within this permit. Any replacement well must be installed within a ten foot radius of the

specified sampling location. Inadequate or damaged wells must be properly sealed as per N.J.A.C. 58:4A-4.1. Instructions regarding sealing may be obtained by contacting the Water Allocation Office (609-984-6831).

1.3.2 All ground water monitoring wells must be installed by a licensed New Jersey Well Driller, pursuant to N.J.S.A. 58:4A-6. A valid New Jersey permit, issued pursuant to N.J.S.A. 58:4A-14, to drill a well must be obtained from the Water Allocation Office (609-984-6831) of the Division of Water Resources prior to installation of ground water monitoring wells. Ground Water monitoring wells must be installed within thirty (30) days of the Effective Date of this permit.

1.3.3 All proposed wells shall be constructed and logged according to Department specifications. For sites where inadequate geological information is available to properly design the well specifications, a Department geologist will finalize the well specifications prior to drilling. Failure to obtain prior written approval may result in disapproval of the wells as constructed and may require new wells to be installed.

1.4 The Bureau of Ground Water Discharge Permits must be notified by the Permittee two weeks prior to the installation of new ground water monitoring wells. Failure to notify the Department and receive Departmental approval of the wells prior to their installation may result in disapproval of the wells as constructed.

1.5 A ground water monitoring well as required by this permit is a monitoring device under N.J.S.A. 58:10A-10 and as such the permittee is required to maintain the wells in proper working order at all times. The permittee is further required to take any and all reasonable steps necessary to limit public access by constructing fences, barricades, or any other structures or means necessary to restrict access to the ground water monitoring well(s). Said structures shall be maintained to restrict access.

1.6 Each ground water monitoring well shall have the Department assigned well number permanently attached to that portion of the casing above the ground surface.

1.7 The owner or operator must inspect each ground water monitoring well on a weekly basis for structural integrity and/or damage. The permittee shall maintain a complete inspection record indicating dates of inspection, inspector's name, and conditions observed. These records shall be made available to the Department at any time upon request. Failure to maintain, or submit records upon request, shall be a violation of

N.J.S.A. 58:10A-10 and shall also be considered by the Department to be a violation of the conditions of this permit.

1.8 If the monitoring wells are damaged or are otherwise rendered inadequate for their intended purpose, the Administrator, Water Quality Management Element, shall be notified within five (5) days in writing indicating:

a) Which wells were damaged or rendered inadequate for their intended use;

b) The cause and extent of damage or the reason for the inadequacy;

c) If the sampling schedule as required in this permit will be violated or if the results of the sampling may reasonably become misleading;

d) The date that the well will again be operational. Damaged wells must be replaced or repaired within thirty (30) days after the damage has occurred. The wells must be sampled within five (5) days, after they have been installed. A replacement well must meet the construction requirements established by the Department. A valid New Jersey well permit is required prior to the installation of the replacement well;

e) The next date that the well will be sampled.

Failure to follow these procedures is a violation of this permit and may subject the permittee to the provisions of N.J.S.A. 58:10A-10.

2. GROUND WATER MONITORING PROGRAM

2.1 The permittee, by methods approved by the Department, must obtain and analyze samples from the approved ground water monitoring system. The permittee must develop and follow a ground water sampling and analysis plan which must be kept at the facility. This plan must also be submitted to the Department within thirty (30) days of the Effective Date of this permit. The plan must include procedures and techniques for:

a. Sample collection
b. Sample preservation and shipment
c. Analytical procedures
d. Chain of custody control

2.2 Ground Water monitoring wells shall be sampled by procedures as delineated in N.J.A.C. 7:14A-6.12 (attached hereto and hereby made part of). A chain of custody record for each sample must be maintained, and may be examined by the Department at any time.

2.3 All samples must be sampled and analyzed by a New Jersey Certified Laboratory. Sampling results shall be reported on forms provided by the Division of Water Resources. Information not reported on the above specified forms shall not be deemed to fulfill the reporting requirements of this permit. Additional forms may be obtained by writing to the Administrator, Water Quality Management Element. It shall be the permittee's responsibility to maintain an adequate supply of forms to report ground water monitoring data to the State.

2.4 The permittee shall retain the services of a New Jersey Certified Laboratory to collect and analyze samples from the ground water monitoring wells.

2.5 The permittee must prepare an outline of a Ground Water Quality Assessment Program. This outline must be submitted to the Department within thirty (30) days of the Effective Date of this permit. The outline of the Ground Water Quality Assessment Program will possess no formal standing until such time as it is approved in writing by the Department. The outline must describe a more comprehensive ground water monitoring program (than described in Section 2.6 of this permit) capable of determining:

a) Whether hazardous waste or hazardous waste constituents have entered the ground water;

b) The rate, direction and extent of migration of hazardous waste or hazardous waste constituents in the ground water; and

c) The concentration of hazardous waste or hazardous waste constituents in the ground water.

The conditions within this permit shall apply during the active life of the regulated unit including the closure period, until such time as a RCRA permit is issued.

2.6 Establishing Initial Background Concentrations for Upgradient Wells

2.6.1 The permittee must submit to the Department initial upgradient background values for those parameters listed in Table 2. The permittee must use the initial upgradient background values generated by the facility under 40 CFR Part 265.92(c)(2). The permittee must submit the following information within thirty (30) days of the Effective Date of this permit:

a) The values of the quarterly analyses used in determining initial upgradient background concentrations for each parameter listed in Table 2, including the arithmetic mean and variance as required under 40 CFR Part 265.92(c)(2).

b) The name of the laboratory used to conduct the analysis.

c) The sampling and analytical procedures used to determine these values.

2.6.2 The Department based on its review of this data, reserves the right to require the permittee to establish new upgradient background values. The Department also reserves the right to change the initial upgradient background values based on data generated during on-going ground water monitoring.

2.6.3 If separate monitoring systems are used for each waste management component, (i.e., a facility with two surface impoundments with separate upgradient and downgradient wells for each surface impoundment) separate initial upgradient background values must be determined for each waste management component.

2.7 On-Going Ground Water Monitoring

2.7.1 After the initial background values have been determined, the permittee shall sample, analyze and report those parameters listed in Table 1.

2.7.2 For the indicator parameters the permittee shall sample and analyze those parameters listed in Table 2 according to the frequency listed in Table 2 and perform the statistical test required under Section 2.7.3 of this permit for every well (both upgradient and downgradient).

2.7.3 For each indicator parameter specified in Table 2, the permittee must calculate the arithmetic mean, variance, and standard deviation, based on at least four replicate measurements on each sample, for each well monitored and compare these results with its initial upgradient background arithmetic mean (as per Section 2.6 of this permit). The comparison must consider, individually, each of the wells in the monitoring system, and must use the Student's t-test at the 0.01 level of significance to determine statistically significant increases (and decreases, in the case of pH) over initial background as specified in Appendix A.

If the test indicates that a significant difference exists between any of the downgradient wells and the initial upgradient background value, the permittee must repeat the same procedure within fifteen (15) days (with at least the same number of replicates as used in the first test) with a fresh sample from the monitoring well. If this second round of analyses indicates that the difference is significant at 0.01,

the permittee must conclude that a statistically significant change has occurred and the Department approved Ground Water Quality Assessment Program described in Section 2.8 shall be conducted.

2.8 Ground Water Quality Assessment Program (GWQAP)

2.8.1 If the analyses performed pursuant to Condition 2.7.3, above, confirm the significant increase (or pH decrease), the permittee must provide written notice to the Department within seven (7) days of the date of confirmation - that the facility may be affecting ground water quality. Within fifteen (15) days of such notification, the permittee must submit to the Department a specific Ground Water Quality Assessment Program, based on the outline required under Section 2.5 this permit. The GWQAP shall be certified by a qualified geologist, or geohydrologist.

2.8.2 The Ground Water Quality Assessment Program must specify:

a. The number, location and depth of new wells;

b. Sampling and analytical methods for those hazardous waste or hazardous waste constituents in the facility;

c. Evaluation procedures, including any use of previously gathered ground water quality information;

d. Ground water decontamination procedures, if any, to be implemented;

e. Reduction of source of pollutant discharge; and

f. A schedule of implementation.

2.8.3 The GWQAP report must be able to answer the following:

a. The rate, direction, and extent of migration of the hazardous waste or hazardous waste constituents in the ground water;

b. The concentrations of the hazardous waste or hazardous waste constituents in the ground water; and

c. The degree of threat posed by the contamination to potential uses of the ground water.

2.8.4. After the Department has approved the specific Ground

Water Quality Assessment Program, the permittee must implement the ground water assessment program within sixty (60) days of the date of the Department's approval.

2.8.5 The permittee must make the first determination under the Ground Water Quality Assessment Program within fifteen (15) days of implementation or (75) days of Department approval, whichever occurs earlier, and submit to the Department a written report containing an assessment of the ground water quality.

2.8.6 If the permittee determines, based on the results of the first determination made under the GWQAP, that no hazardous waste or hazardous waste constitutents from the facility have entered the ground water, he may then, upon approval by the Department, reinstate the indicator evaluation program described in Section 2.7 of this permit.

2.8.7 If the permittee or the Department determines, based on the ground water sampling that hazardous waste or hazardous waste constituents from the facility have entered the ground water, then the permittee must continue to make the determinations required under the GWQAP on at least a quarterly basis until final closure of the waste management area has been approved by the Department or cleanup of ground water, if the ground water assessment plan was implemented prior to final closure of the facility.

2.8.9 While in the Ground Water Quality Assessment program, the permittee must keep records of the analyses and evaluations specified in the plan, which satisfies the requirements of Section 2.8.3, throughout the active life of the facility, and, for disposal facilities, throughout the post-closure care period as well. In addition, until the final closure of the waste management area, the permittee must quarterly submit to the Department a report containing the results of his Ground Water Quality Assessment Program which includes, but is not limited to, the calculated (or measured) rate and extent of migration of hazardous waste or hazardous waste constituents in the ground water during the reporting period.

2.9 Ground Water Quality

2.9.1 Should analysis of any of the upgradient or downgradient wells indicate values in excess of those values listed in Table 3, the permittee must provide written notice to the Department within 15 days from the date the permittee received the analysis. The notification must include:

a) Which wells are in excess of the parameters in Table 3.

b) The date the sample was taken and the date the analysis was performed.

c) The name of the certified lab that performed the analysis and the analytical procedures used.

d) The parameters which exceeded the values in Table 3 and their values including detection limits.

2.9.2 The Department upon receipt of this notice may take any one of the following actions:

i) Require the facility to begin a G.W.Q.A.P.

ii) Require the facility to do additional monitoring to determine the source and extent of the pollution plume.

iii) Require the permittee to cease or limit the discharge to ground water.

iv) Require the permittee to clean-up the ground water.

3. FACILITY MAP

3.1 The permittee must submit to the Department a drawing showing the general layout of the facility, which must be to scale. This drawing shall show the following:

a) The property boundaries of the facility;

b) The areas occupied by all storage, treatment, or disposal operations;

c) The name of each operation;

d) Areas of past storage, treatment, or disposal operations;

e) When known, the areas of proposed future storage, treatment, or disposal operations;

f) The dimensions of the property boundaries and all storage, treatment and disposal areas; and

g) The location of all ground water monitoring wells.

This must be submitted to the Department within 30 days of the Effective Day of this permit.

4. WASTE CHARACTERISTICS AND ANALYSIS

4.1 Waste Characteristics

For each waste management unit, the permittee shall submit to the Department a list identifying all waste streams and waste materials (including any wastes accepted from off-site facilities) that will be subject to storage, treatment or disposal in each waste management unit to be monitored under this permit. The list must include all wastes destined for the unit, whether it is hazardous or non-hazardous. At a minimum, this shall include the following:

a. The name, origin and volume of each waste entering into each waste management unit;

b. The generating process or source of each waste. For facilities receiving wastes from off-site sources, the type of generating process must be included.

c. A flow diagram for each waste generating process identified.

d. The degree of treatment of each waste entering each of the waste management units regulated under this permit.

e. The EPA Hazardous Waste Number for each hazardous waste entering into each waste management unit.

4.2 Expected Waste Composition

For each waste identified above, the permittee shall submit to the Department a list of the names of all organic and inorganic compounds or complexes including any hazardous waste constituents as per N.J.A.C. 7:26-8.16 that may be reasonably expected to be present in the waste. The list of expected waste should be based on the flow diagram.

4.3 Waste Analysis

For each regulated waste management unit, the permittee must obtain a detailed chemical analysis of the waste being stored, treated or disposed. A sufficient number of these samples shall be taken to sufficiently represent the variability of the wastes. The analysis, at a minimum, must include all parameters listed in Table 4 plus all parameters listed in the expected waste composition in Section 4.2 of this permit.

A representative sample is proportionate with respect to all constituents in the mass of the waste. The probability of obtaining a representative sample is enhanced by compositing multiple samples. If large variability is encountered in the sample analysis, additional samples shall be taken.

Precautions must be taken to ensure that the total waste substrate has been sampled.

Samples shall be properly preserved to insure that the analysis represents the constituents in the waste as closely as possible. Prior arrangements should be made with the receiving laboratory to ensure sample integrity.

4.3.1 For Surface Impoundments the following two areas must be sampled and analyzed:

a. The liquid portion of the surface impoundment.

b. The sludge within the surface impoundment.

If differential settling of material, as it enters the impoundment, is noted, then this area of differential settling shall be estimated as a percentage of the treatment or holding area and be sampled and reported separately. Solid and liquid portions shall be sampled, analyzed and reported separately.

4.3.2 For landfills, the following two sampling points must be sampled and analyzed for the parameters listed in Table 4:

1. The storage or holding area for wastes to be disposed of in the landfill.

2. The existing landfill itself.

4.3.3 Waste Piles shall be sampled through at least three different points near the top of the pile and points diagonally opposite the point of entry.

4.3.4 Sampling equipment and storage containers shall be thoroughly cleaned and free of contamination at the time of sampling. It is necessary to use specialized sampling equipment to ensure that the sample is representative of the waste.

4.3.5 The permittee shall describe the test methods used to test for each parameter.

4.4 All information and data required under Section 4 of this permit must be submitted to the Department within 30 days of the Effective Date of this permit.

TABLE 1

MONITORING PARAMETERS TO BE UTILIZED IN ESTABLISHING THE SUITABILITY OF THE GROUND WATER AS A DRINKING WATER SUPPLY

Parameter	Sampling Frequency
Arsenic (As)	Quarterly
Barium (Ba)	Quarterly
Cadmium (Cd)	Quarterly
Chromium (Cr)	Quarterly
Fluoride (F)	Quarterly
Lead (Pb)	Quarterly
Mercury (Hg)	Quarterly
Ammonium Nitrogen (NH_4-N)	Quarterly
Nitrate Nitrogen (NO_3-N)	Quarterly
Selenium (Se)	Quarterly
Silver (Ag)	Quarterly
Iron (Fe)	Quarterly
Manganese (Mn)	Quarterly
Sodium (Na)	Quarterly
Sulfate (SO_4)	Quarterly
Chloride (Cl)	Quarterly
Phenols	Quarterly
Lindane	Quarterly
Methoxychlor	Quarterly
Toxaphene	Quarterly
2, 4-D	Quarterly
2,4,5-TP, Silvex	Quarterly
Endrin	Quarterly
Radium	Quarterly
Gross Alpha	Quarterly
Gross Beta	Quarterly
Coliform Bacteria	Quarterly
Total Dissolved Solids	Quarterly
Total Volatile Organics by GC/MS Scan	Annually

TABLE 2

MONITORING PARAMETERS TO BE UTILIZED
AS INDICATORS OF GROUND WATER CONTAMINATION

	Parameter	Sampling Frequency
1)	pH	Quarterly
2)	Total Organic Carbon	Quarterly
3)	Total Organic Halogen	Quarterly
4)	Specific Conductance	Quarterly

Table 3 - Ground Water Monitoring Requirements and Limitations for Initial Interim NJPDES Permits for Industrial Waste Management Facilities and Hazardous Waste Interim Status Facilities

The permittee shall sample a total of five* ground water monitoring wells according to the schedule below. All ground water elevations must be determined prior to pumping and sampling the ground water monitoring wells. Sampling of the ground water monitoring wells shall be performed according to the methodology specified in Section 6.12 of the NJPDES regulations and the Department's Field Procedures Manual for Water Data Acquisition. The permittee shall sample for all parameters for which there is an "X" to the left of the parameter name. Sampling shall be performed during the months which are specified for that parameter.

	PARAMETER	LIMITATION	SAMPLING MONTH	SAMPLE TYPE	REPORTING MONTH
___	Aldrin/Dieldrin	0.003 ppb	JanAprJulOct	Grab	FebMayAugNov
X	Ammonia-Nitrogen	0.5 ppm	JanAprJulOct	Grab	FebMayAugNov
X	Arsenic and Compounds	0.05 ppm	JanAprJulOct	Grab	FebMayAugNov
X	Barium	1.0 ppm	JanAprJulOct	Grab	FebMayAugNov
___	Benzidine	0.1 ppb	JanAprJulOct	Grab	FebMayAugNov
___	Biochemical Oxygen Demand (BOD_5)				
X	Cadmium	ppm	JanAprJulOct	Grab	
___	Calcium	0.01 ppm	JanAprJulOct	Grab	FebMayAugNov
___	Chemical Oxygen Demand (COD)	ppm	JanAprJulOct	Grab	FebMayAugNov
X	Chloride	ppm	JanAprJulOct	Grab	FebMayAugNov
X	Chromium (Hexavalent) and Compounds	ppm	JanAprJulOct	Grab	FebMayAugNov
X	Coliform Bacteria	0.05 ppm	JanAprJulOct	Grab	FebMayAugNov
___	Color	(1)	JanAprJulOct	Grab	FebMayAugNov
___	Copper	None Noticeable	JanAprJulOct	Grab	FebMayAugNov
___	Cyanide	1.0 ppm	JanAprJulOct	Grab	FebMayAugNov
___	DDT and Metabolites	0.2 ppm	JanAprJulOct	Grab	FebMayAugNov
X	Endrin	0.001 ppb	JanAprJulOct	Grab	FebMayAugNov
___	Fecal Coliform, MPN per 100 ml	0.004 ppb	JanAprJulOct	Grab	FebMayAugNov
X	Fluoride	( )	JanAprJulOct	Grab	FebMayAugNov
___	Foaming Agents	2.0 ppm	JanAprJulOct	Grab	FebMayAugNov
X	Gross Alpha	0.5 ppm	JanAprJulOct	Grab	FebMayAugNov
X	Gross Beta		JanAprJulOct	Grab	FebMayAugNov
___	Hardness		JanAprJulOct	Grab	FebMayAugNov
X	Iron	ppm	JanAprJulOct	Grab	FebMayAugNov
		0.3 ppm	JanAprJulOct	Grab	FebMayAugNov

GROUND WATER MONITORING REQUIREMENTS AND LIMITATIONS - Page 2

	PARAMETER	LIMITATION		SAMPLING MONTH	SAMPLE TYPE	REPORTING MONTH
X	Kjeldahl Nitrogen		ppm	JanAprJulOct	Grab	FebMayAugNov
X	Lead and Compounds	0.05	ppm	JanAprJulOct	Grab	FebMayAugNov
X	Lindane		ppb	JanAprJulOct	Grab	FebMayAugNov
	Magnesium		ppm	JanAprJulOct	Grab	FebMayAugNov
X	Manganese	0.05	ppm	JanAprJulOct	Grab	FebMayAugNov
X	Mercury and Compounds	0.002	ppm	JanAprJulOct	Grab	FebMayAugNov
X	Methoxychlor		ppb	JanAprJulOct	Grab	FebMayAugNov
X	Nitrate-Nitrogen (NO_3-N)		ppm	JanAprJulOct	Grab	FebMayAugNov
	Odor and Taste	None Noticeable				
	Oil and Grease	10.0	ppm	JanAprJulOct	Grab	FebMayAugNov
X	pH		S.U.	JanAprJulOct	Grab	FebMayAugNov
X	Phenols		ppb	JanAprJulOct	Grab	FebMayAugNov
	Phosphate, Total		ppm	JanAprJulOct	Grab	FebMayAugNov
	Polychlorinated Biphenyls (PCBs)	0.001 (2)	ppb	JanAprJulOct	Grab	FebMayAugNov
	Radionuclides			JanAprJulOct	Grab	FebMayAugNov
X	Radium			JanAprJulOct	Grab	FebMayAugNov
X	Selenium and Compounds		ppm	JanAprJulOct	Grab	FebMayAugNov
X	Silver and Compounds	0.05	ppm	JanAprJulOct	Grab	FebMayAugNov
X	Sodium		ppm	JanAprJulOct	Grab	FebMayAugNov
X	Specific Conductance (mmho·cm)			JanAprJulOct	Grab	FebMayAugNov
X	Sulfate		ppm	JanAprJulOct	Grab	FebMayAugNov
X	Total Dissolved Solids (TDS)		ppm	JanAprJulOct	Grab	FebMayAugNov
X	Total Organic Carbon (TOC)		ppm	JanAprJulOct	Grab	FebMayAugNov
X	Total Organic Halogen (TOH or TOX)		ppm	JanAprJulOct	Grab	FebMayAugNov
X	Total Volatile Organics by GC/MS Scan (3)	50	ppb	Jan	Grab	Feb
X	Toxaphene	0.005	ppb	JanAprJulOct	Grab	FebMayAugNov
	Turbidity		ppm	JanAprJulOct	Grab	FebMayAugNov
	Zinc and Compounds	5.0	ppm	JanAprJulOct	Grab	FebMayAugNov
X	2,4 D		ppb	JanAprJulOct	Grab	FebMayAugNov
X	2,4,5-TP Silvex		ppb	JanAprJulOct	Grab	FebMayAugNov

GROUND WATER MONITORING REQUIREMENTS AND LIMITATIONS - Page 3

	PARAMETER	LIMITATION	SAMPLING MONTH	REPORTING MONTH
X	Elevation of Top of Monitor Well Casing (To be determined once, but reported as indicated)		JFMAMJJASOND	JFMAMJJASOND
X	Depth of Water Table from Top of Casing Prior to Sampling		JFMAMJJASOND	JFMAMJJASOND
X	Depth to Water Table from Original Ground Level Prior to Sampling		JFMAMJJASOND	JFMAMJJASOND

Notes: (1) A. By membrane filtration, not to exceed four per 100 ml in more than one sample when less than 20 are examined per month, or B. by fermentation tube, with a standard 10 ml portion, not to be present in three or more portions in more than one sample when less than 20 are examined per month, or C. prevailing criteria adopted pursuant to The Federal Safe Drinking Water Act (PL 93-523).

(2) Prevailing regulations adopted by USEPA pursuant to Sections 1412, 1415, and 1450 of The Public Health Services Act as amended by The Safe Drinking Water Act (PL 93-523).

(3) GC/MS scan for volatile organics with a method limit of detection of 10 ppb or better for each substance. The concentration limit for specific volatile organic chemicals shall be that specified in Appendix F of the NJPDES regulations for the 10^{-5} Cancer Risk, but in no case shall the total concentration for all volatile organic chemicals exceed 50 ppb.

The Permittee shall complete the forms required on the "Monitoring Report - Transmittal Sheet" (Form T-VWX-014) which is included as a part of this Permit. Failure to submit sampling data on the forms required on the "Monitoring Report - Transmittal Sheet" shall be considered by the Department to be a violation of the Permit sampling requirements and may place the Permittee subject to civil and administrative penalties pursuant to N.J.S.A. 58:10A-10.

It shall be the Permittee's sole responsibility to maintain an adequate supply of the required report forms.

* The five wells to be monitored shall include well nos. 1,4 and the three new wells.

Satisfactory ground water monitoring wells are defined in Section 6.13 of the NJPDES regulations and shall be subject to Departmental approval. If ground water monitoring wells do not meet these standards, they must be replaced with new wells meeting Departmental standards.

A Ground Water Monitoring Well Certification (Forms A and B) shall be completed for each existing and proposed ground water monitoring well. Information for each well must be shown on a separate form. For an existing well, if information required on the Ground Water Monitoring Certification (Forms A and B) cannot be determined or the ground water monitoring well is not adequately constructed to meet the requirements of this Permit, the Department reserves the right to require a replacement well. Criteria to be used by the Department in judging the adequacy of a well will be related to the ability of the well to provide a representative ground water sample at any time of the year as specified by the Permit. Any replacement well must be installed within a 10 foot radius of the existing well. Inadequate or damaged existing wells must be properly sealed pursuant to N.J.A.C. 58:4A-4.1. Instructions regarding sealing may be obtained by contacting the Water Allocation Office (609-984-6831).

TABLE 3A

GROUND WATER MONITORING REQUIREMENTS AND

LIMITATIONS FOR WELLS NOS. 2, 3 & 5*

	PARAMETER	LIMITATION	SAMPLING MONTH	SAMPLE TYPE	REPORTING MONTH
X	Elevation of Top of Monitor Well Casing (To be determined once, but reported as indicated)		JanAprJulOct		FebMayAugNov
X	Depth of Water Table from Top of Casing Prior to Sampling		JanAprJulOct		FebMayAugNov
X	Depth to Water Table from Original Ground Level Prior to Sampling		JanAprJulOct		FebMayAugNov
X	Lead and Compounds	0.05 ppm	JanAprJulOct	GRAB	FebMayAugNov
X	pH	S.U.	JanAprJulOct	GRAB	FebMayAugNov
X	TOC	--	JanAprJulOct	GRAB	FebMayAugNov
X	TDS	500 ppm	JanAprJulOct	GRAB	FebMayAugNov

* Only ground water elevations must be taken at the piezometer No. 5

The Permittee shall complete the forms required on the "Monitoring Report - Transmittal Sheet" (Form T-VWX-014) which is included as a part of this Permit. Failure to submit sampling data on the forms required on the "Monitoring Report - Transmittal Sheet" shall be considered by the Department to be a violation of the Permit sampling requirements and may place the Permittee subject to civil and administrative penalties pursuant to N.J.S.A. 58:10A-10.

It shall be the Permittee's sole responsibility to maintain an adequate supply of the required report forms.

TABLE 4

PARAMETERS FOR WASTE ANALYSIS

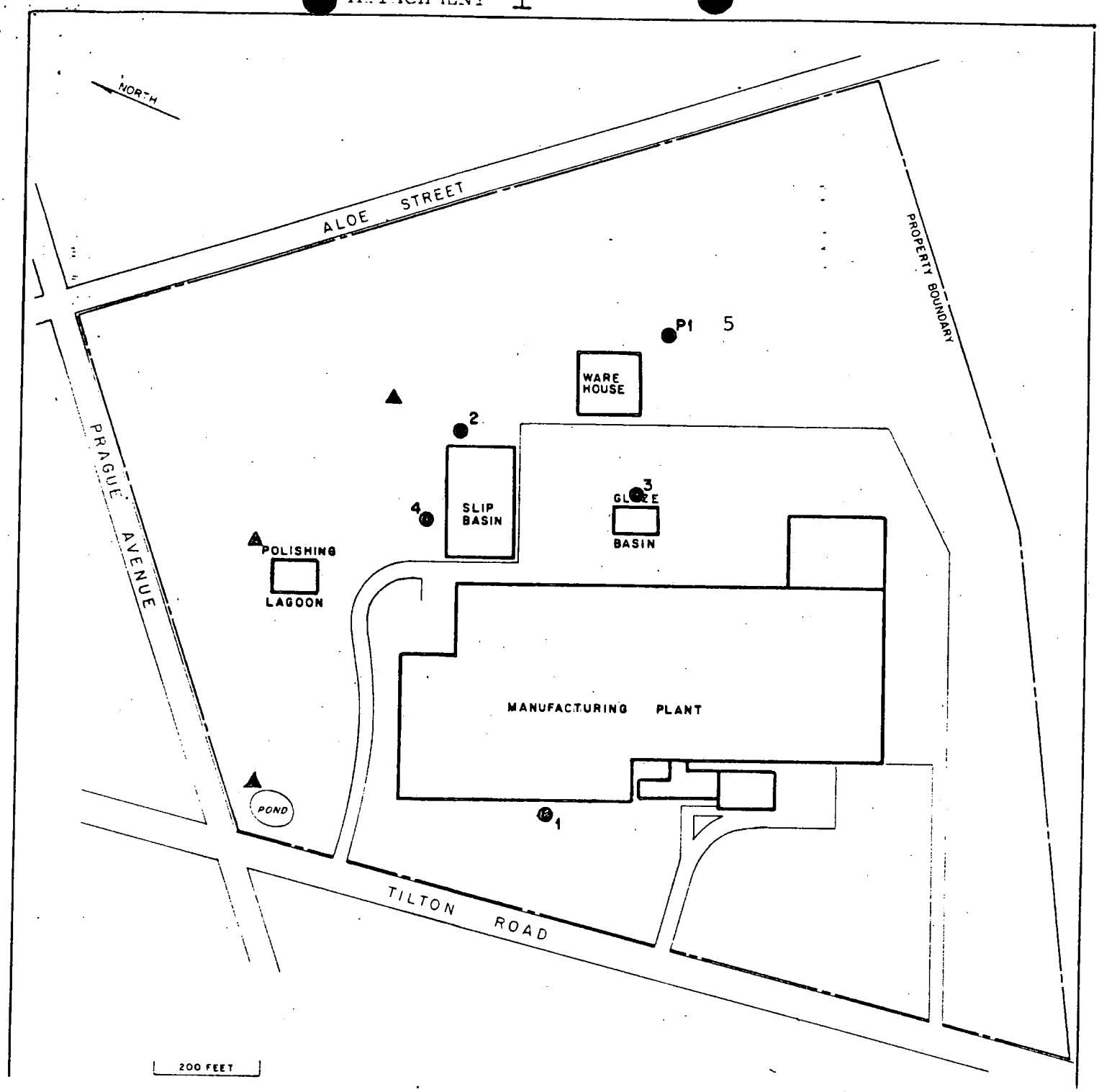
Parameter	Limit	Sampling Frequency	Sampling Method	Reporting Frequency
WASTEWATER WITHIN SLIP LAGOON, POLISHING POND AND FINAL EFFLUENT DISCHARGE POND				
Ph		Quarterly	Grab	Quarterly
Temperature		Quarterly	Grab	Quarterly
Bod		Quarterly	Grab	Quarterly
Cod		Quarterly	Grab	Quarterly
TSS		Quarterly	Grab	Quarterly
TDS		Quarterly	Grab	Quarterly
TOC		Quarterly	Grab	Quarterly
Nitrate Nitrogen		Quarterly	Grab	Quarterly
Phosphorus		Quarterly	Grab	Quarterly
Lead		Quarterly	Grab	Quarterly
Chromium		Quarterly	Grab	Quarterly
Sulfate		Quarterly	Grab	Quarterly
Sodium		Quarterly	Grab	Quarterly
Flow*		Continuous		Continuous

* To be measured prior to discharge to the slip lagoon.

SLUDGE SAMPLING WITHIN SLIP LAGOON AND POLISHING POND

An EP Toxicity Test must be performed on an annual basis on the sludge within the slip lagoon and the polishing pond. The test shall be done on a composite sample and shall include the contaminants listed in Table I of 40 CFR 261.24.

ATTACHMENT 1

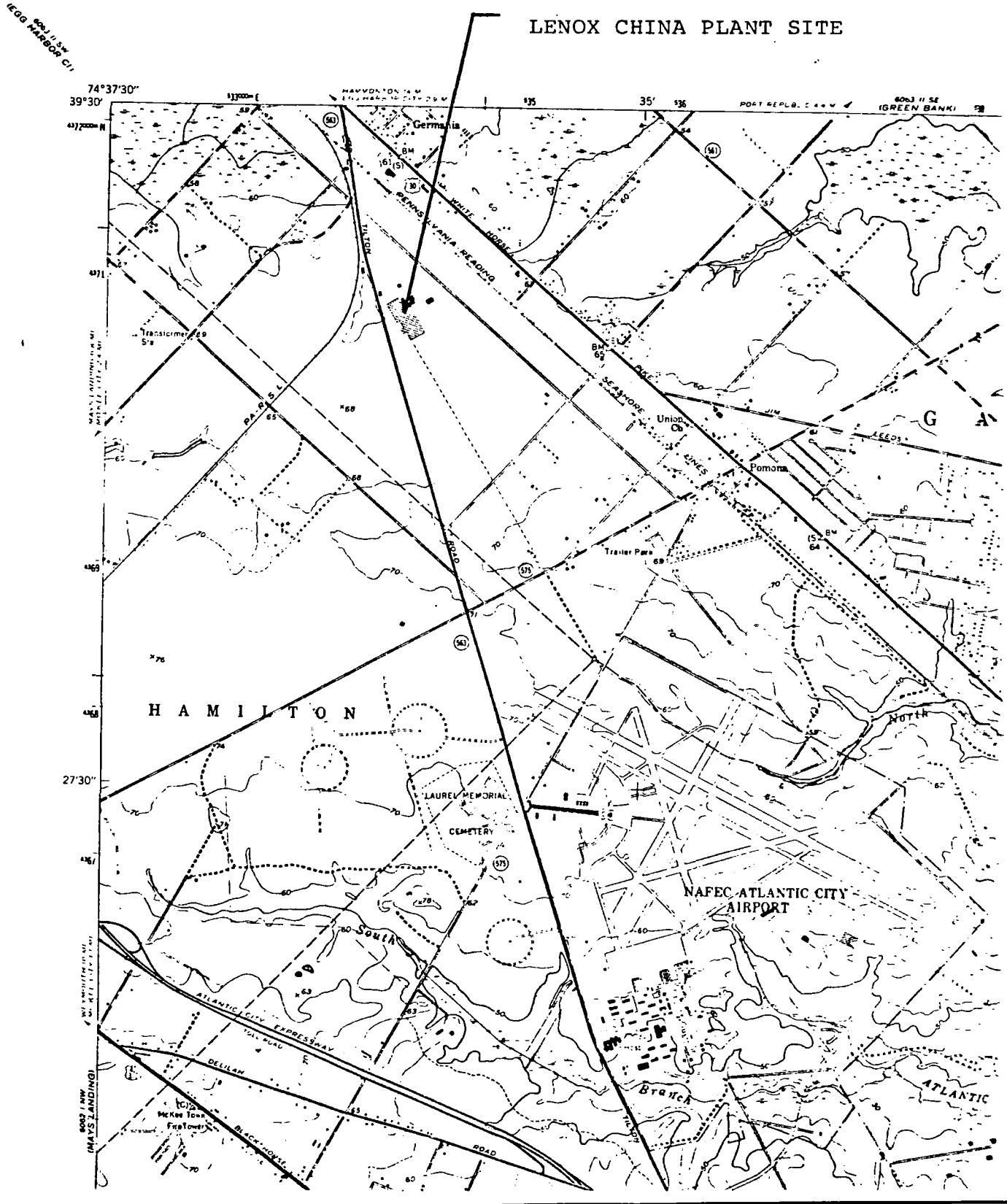


▲ PROPOSED MONITORING WELL LOCATIONS

The two wells that will monitor the polishing lagoon and the final effluent disposal pond shall be installed as close as possible to each facility.

The well to monitor the old waste sludge land application area shall be located north of the identified area immediately beyond the railroad tracts leading to the Lenox plant.

TOPOGRAPHIC MAP - LENOX CHINA, INC.



APPENDIX A

The permittee must use the Student's t-test to determine statistically significant changes in the concentration or value of an indicator parameter in periodic ground-water samples when compred to the initial background concentration or value of that indicator parameter. The comparison must consider individually each of the wells in the monitoring system. For three of the indicator parameters (specific conductance, total organic carbon, and total organic halogen) a single-tailed Student's t-test must be used to test at the 0.01 level of significance for significant increases over background. The difference test for pH must be a two-tailed Student's t-test at the overall 0.01 level of significance.

The student's t-test involves calculation of the value of t-statistic for each comparison of the mean (average) concentration or value (based on a minimum of four replicate measurements) of an indicator parameter with its initial background concentration or value. The calculated value of the t-statistic must then be compared to the value of the t-statistic found in a table for t-test of significance at the specified level of significance. A calculated value of t which exceeds the value of t found in the table indicates a statistically signficant change in the concentration or value of the indicator parameter.

Formulae for calucation of the t-statistic and table for t-test of significance can be found in most introductory statistics texts.

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS/HER AGENT

GROUND WATER
MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION
(One form must be completed for each well)

Name of Permittee: Lenox China Inc.
Name of Facility: Lenox China Inc.
Location: Tilton Road
Pomona, N.J. 08240

NJPDES Permit No: NJ0005177

ENGINEER'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section (609-984-6831): This number must be permanently affixed to the well casing. _ _ _ _ _ _ _ _ _ _

Owner's Well Number (As shown on the application or plans): _____
Well Completion Date: _____
Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot); _____
Total Depth of Well (one-tenth of a foot): _____
Depth to Top of Screen From Top of Casing (one-tenth of a foot): _____
Screen Length (feet): _____
Screen or Slot Size: _____
Screen Material: _____
Casing Material: (PVC, Steel or Other-Specify): _____
Casing Diameter(Inches): _____
Static Water Level From Top of Casing at The Time of Certification(one-hundredth of a foot): _____
Yield (Gallons per Minute): _____
Length of time Well Pumped or Bailed: _____ Hours _____ Minutes
Lithologic Log: ATTACH ON BACK

AUTHENTICATION:
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitted false information including the possibility of fine and imprisonment.

_____
Professional Engineer's Signature

_____
Professional Engineer's Name
(Please type or print)

SEAL

_____
Professional Engineer's License #

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS/HER AGENT

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION CERTIFICATION

Name of Permittee: Lenox China, Inc.
Name of Facility: Lenox China, Inc.
Location: Tilton Road
Pomona, N.J. 08240
NJPDES Number: NJ 0005177

LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section, 609-984-6831): __ __-__ __ __ __ __-__
This number must be permanently affixed to the well casing.

Longitude (one-hundredth of a second): West_____
Latitude (one-hundredth of a second): North_____
Elevation of Top of Casing (cap off) (one-hundredth of a foot): _____
Owners Well Number (As shown on the application or plans): _____

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

_____
PROFESSIONAL LAND SURVEYOR'S SIGNATURE

_____ SEAL
PROFESSIONAL LAND SURVEYOR'S NAME
(Please print or type)

_____
PROFESSIONAL LAND SURVEYOR'S LICENSE #

Form T-VWX-014
5/83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

MONITORING REPORT — TRANSMITTAL SHEET

NJPDES NO.	REPORTING PERIOD MO. YR.		THRU	MO. YR.
0010517				

PERMITTEE: Name Lenox China, Inc.

Address Tilton Road

Pomona, N. J. 08240

FACILITY: Name SAME AS ABOVE

Address

(County) Atlantic

Telephone (609) 64]-3700

FORMS ATTACHED *(Indicate Quantity of Each)*

SLUDGE REPORTS - SANITARY

☐ T-VWX-007 ☐ T-VWX-008 ☐ T-VWX-009

SLUDGE REPORTS - INDUSTRIAL

☐ T-VWX-010A ☐ T-VWX-010B

WASTEWATER REPORTS

[1] T-VWX-011 [1] T-VWX-012 [2] T-VWX-013, 13A

GROUNDWATER REPORTS

[8] VWX-015(A,B) [5] VWX-016 [5] VWX-017

NPDES DISCHARGE MONITORING REPORT

☐ EPA FORM 3320-1

OPERATING EXCEPTIONS

	YES	NO
DYE TESTING	☐	☐
TEMPORARY BYPASSING	☐	☐
DISINFECTION INTERRUPTION	☐	☐
MONITORING MALFUNCTIONS	☐	☐
UNITS OUT OF OPERATION	☐	☐
OTHER	☐	☐

(Detail any "Yes" on reverse side in appropriate space.)

NOTE: The "Hours Attended at Plant" on the reverse of this sheet must also be completed.

AUTHENTICATION - I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

LICENSED OPERATOR

Name *(Printed)* _____

Grade & Registry No. _____

Signature _____

Date _____

PRINCIPAL EXECUTIVE OFFICER or DULY AUTHORIZED REPRESENTATIVE

Name *(Printed)* _____

Title *(Printed)* _____

Signature _____

Date _____

Form T-VWX-011
3/82

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

FACILITY WASTEWATER REPORT

NJPDES NO. 0 0 0 5 1 7 7 (1–7)

REPORTING PERIOD MO. YR. (11–14) THRU MO. YR. (15–18)

1 (19)

NJDEP USE (20)

DISCHARGE ID (PIPE) (8–10)	DISCHARGE FLOWRATE MILLION GALLONS PER DAY AVERAGE (21–28)	DISCHARGE FLOWRATE MILLION GALLONS PER DAY MAXIMUM (29–36)	No. of Days Exceeding Design Capacity (37–39)	EFFLUENT pH MIN. (40–42)	EFFLUENT pH MAX. (43–45)	EFFLUENT TEMPERATURE °C AVG. (46–48)	EFFLUENT TEMPERATURE °C MAX. (49–51)	THERMAL LOADING MILLION BTU PER DAY AVERAGE (52–60)	THERMAL LOADING MILLION BTU PER DAY MAXIMUM (61–69)	Upstream Temp. °C. AVG. (70–72)

INDIRECT DISCHARGER

RECEIVING POTW: NJPDES NO.

NAME _____

MUNICIPALITY _____

COUNTY _____

DISCHARGER _____

NOTE:

1. *Flowrate is mandatory for all discharges.*
2. *pH and Effluent Temperature to be reported as required by permit for all discharges.*
3. *Thermal Parameters (Effluent Temperature, Thermal Loading, & Upstream Temp.) are mandatory for Thermal Discharges.*

Form T-VWX-013
Rev. 3/82

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

INDUSTRIAL FACILITY WASTEWATER REPORT

NJPDES NO. 0 0 0 5 1 7 7 (1–7)

DISCHARGE ID. (8–10)

REPORTING PERIOD MO. YR. (11–14) THRU MO. YR. (15–18)

3 (19)

NJDEP USE (20)

NEW JERSEY LABORATORY CERT. NO. (21–25)

AS REQUIRED BY PERMIT

26	27	PARAMETER DESCRIPTION	INFLUENT CONC. MILLIGRAMS PER LITER AVERAGE (28–35)	EFFLUENT CONC. MILLIGRAMS PER LITER AVERAGE (36–42)	EFFLUENT CONC. MILLIGRAMS PER LITER MAXIMUM (43–49)	EFFLUENT LOADING KILOGRAMS PER DAY AVERAGE (50–56)	EFFLUENT LOADING KILOGRAMS PER DAY MAXIMUM (57–63)
1	A	BOD_5					
1	B	COD					
1	C	Total Dissolved Solids					
1	D	Total Suspended Solids					
1	E	Chlorine					
1	F	Total Organic Carbon					
1	G	Total Dissolved Carbon					
1	H	Total Nitrogen					
1	I	Ammonia Nitrogen					
1	J	Nitrate Nitrogen					
1	K	Total Phosphorus					
1	L	Oil & Grease					
1	M	Petroleum Hydrocarbons					
1	N	Aromatic Hydrocarbons					
1	O	Chlorinated Hydrocarbons					
1	P	Phenols (Total)					
1	Q	Cyanide (Total)					
1	R	Aluminum					
1	S	Arsenic					
1	T	Cadmium					
1	U	Chromium (Total)					
1	V	Cobalt					
1	W	Copper					
1	X	Lead					
1	Y	Mercury					
1	Z	Nickel					
2	A	Silver					
2	B	Zinc					

DISCHARGER NAME LENOX CHINA, INC.

LAB NAME

Form T-VWX-013 A
5/82

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

INDUSTRIAL FACILITY WASTEWATER REPORT

NJPDES NO. (1–7)	DISCHARGE ID. (8–10)	REPORTING PERIOD MO. YR. (11–14) THRU MO. YR. (15–18)	19	NJDEP USE (20)	NEW JERSEY LABORATORY CERT. NO. (21–25)
0005177		THRU	3		

AS REQUIRED BY PERMIT 26	27	PARAMETER DESCRIPTION	INFLUENT CONC. MILLIGRAMS PER LITER AVERAGE (28–35)	EFFLUENT CONC. MILLIGRAMS PER LITER		EFFLUENT LOADING KILOGRAMS PER DAY	
				AVERAGE (36–42)	MAXIMUM (43–49)	AVERAGE (50–56)	MAXIMUM (57–63)
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DISCHARGER NAME LENOX CHINA, INC. LAB NAME ____________

Form VWX-015 A
4/93

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME	SW ID NO.
Lenox China, Inc. - Pomona	
LAB NAME	

R (1) | NJPDES NO. NJ 0 0 0 5 1 7 7 (2–8) | WELL PERMIT NO. (9–16) | SAMPLE DATE YR. MO. DAY (17–22) | NJ LAB CERT. NO. (23–27) | WQM USE (28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM MO. YR. TO MO. YR.

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS: Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
X			X			X			X			Elevation of top of well casing with cap off (as specified in well completion report)	feet MSL: to nearest .01			
X			X			X			X			Elevation of original ground level (as specified in well completion report)	feet MSL: to nearest .01			
X			X			X			X			Depth to water table from top of casing prior to sampling with cap off	feet: to nearest .01	82546		
X			X			X			X			Depth to water table from original ground level prior to sampling	feet: to nearest .01	72019		
X			X			X			X			Arsenic, Dissolved	UG/L as As	01000		
X			X			X			X			Barium, Dissolved	UG/L as Ba	01005		
												Biochemical Oxygen Demand - 5 Day	MG/L	00310		
X			X			X			X			Cadmium, Dissolved	UG/L as Cd	01025		
X			X			X			X			Chloride, Dissolved	UG/L as Cl	82295		
X			X			X			X			Chromium, Dissolved	UG/L as Cr	01030		
X			X			X			X			Chromium, Dissolved, Hexavalent	UG/L as Cr	01220		
												Chemical Oxygen Demand (COD), Dissolved	MG/L	00341		
												Coliform Group	N/100 ML	74056		
												Color	Pt - Co	00080		
												Copper, Dissolved	UG/L as Cu	01040		
												Cyanide, Total	MG/L as CN	00720		
X			X			X			X			Endrin, Total	UG/L	39390		
X			X			X			X			Fluoride, Dissolved	MG/L as F	00950		
X			X			X			X			Gross Alpha, Dissolved	Pc/L	01503		
X			X			X			X			Gross Beta, Dissolved	Pc/L	03503		
												Hardness, Total as $CaCO_3$	MG/L	00900		
X			X			X			X			Iron, Dissolved	UG/L as Fe	01046		
X			X			X			X			Lead, Dissolved	UG/L as Pb	01049		
X			X			X			X			Lindane, Total	UG/L	39782		
X			X			X			X			Manganese, Dissolved	UG/L	01056		
X			X			X			X			Mercury, Dissolved	UG/L	71890		

VALUE CODING RULES AND REMARK CODES ON REVERSE

29 33 34 40 41
42 46 47 53 54
55 59 60 65 67
68 72 73 79 80

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Lenox China, Inc. - Pomona | SW ID NO.:

LAB NAME:

S (1) | NJPDES NO. NJ 0005177 (2–8) | WELL PERMIT NO. (9–16) | SAMPLE DATE YR. MO. DAY (17–22) | NJ LAB CERT. NO. (23–27) | WQM USE (28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM MO. YR. TO MO. YR.

SUBMIT WITH SIGNED T-VWX-014

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
X			X			X			X			Methoxychlor, Total	UG/L	39480		
												Methylene Blue Active Substances	MG/L	38260		
X			X			X			X			Nitrogen, Ammonia, Dissolved $NH_3 + NH_4$ as N	MG/L as N	00608		
X			X			X			X			Nitrogen, Nitrate, Dissolved	MG/L as N	00618		
												Odor	T.O.N.	00085		
X			X			X			X			pH	Standard Units	00400		
X			X			X			X			Phenols, Total Recoverable	UG/L	32730		
X			X			X			X			Radium 226, Dissolved	Pc/L	09503		
X			X			X			X			Radium 228, Dissolved	Pc/L	81366		
X			X			X			X			Selenium, Dissolved	UG/L	01145		
X			X			X			X			Silver, Dissolved	UG/L	01075		
X			X			X			X			Sodium, Dissolved	MG/L	00930		
X			X			X			X			Sulfate, Dissolved (as SO_4)	MG/L	00946		
X			X			X			X			Total Dissolved Solids (TDS)	PPM	70300		
X			X			X			X			Total Organic Carbon (TOC)	PPM	00680		
X			X			X			X			Total Organic Halogen (TOX)	UG/L	70353		
X			X			X			X			Toxaphene	UG/L	39400		
												Turbidity	NTU	00076		
												Zinc, Dissolved	UG/L	01090		
X			X			X			X			2, 4–D, Total	UG/L	39370		
X			X			X			X			2, 4, 5–TP, Total	UG/L	39045		

VALUE CODING RULES AND
REMARK CODES ON REVERSE

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

Form VWX-016
4/83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – VOLATILE ORGANICS REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: LENOX CHINA, INC. - pomona
SW ID NO.:
LAB NAME:

NJPDES NO.: T NJ 0 0 0 5 7 7 (positions 1, 2–8)
WELL PERMIT NO.: (positions 9–16)
SAMPLE DATE YR. MO. DAY: (positions 17–22)
NJ LAB CERT. NO.: (positions 23–27)
WQM USE: (position 28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM MO. YR. TO MO. YR.

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS												ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.					
X												Acrylonitrile	UG/L	34215		
X												Benzene	UG/L	34030		
X												Bromoform	UG/L	32104		
X												Carbon Tetrachloride	UG/L	32102		
X												Chlorobenzene	UG/L	34301		
X												Chlorodibromoethane	UG/L	34306		
X												Chloroform	UG/L	32106		
X												1, 1 - Dichloroethane	UG/L	34496		
X												1, 2 - Dichloroethane	UG/L	34531		
X												1, 1 - Dichloroethylene	UG/L	34501		
X												1, 2 - Dichloropropane	UG/L	34541		
X												Ethylbenzene	UG/L	34371		
X												Methylene Chloride	UG/L	34423		
X												1, 1, 2, 2 - Tetrachloroethane	UG/L	34516		
X												Tetrachloroethylene	UG/L	34475		
X												Toluene	UG/L	34012		
X												1, 1, 1 - Trichloroethane	UG/L	34506		
X												1, 1, 2 - Trichloroethane	UG/L	34511		
X												Trichloroethylene	UG/L	39180		
X												Vinyl Chloride	UG/L	39175		
X												Acrolein	UG/L	34210		
X												Chloroethane	UG/L	34311		
X												2 - Chloroethylvinyl Ether	UG/L	34576		
X												Dichlorobromomethane	UG/L	32105		
X												1, 3 - Dichloropropylene	UG/L	34699		
X												Methyl Bromide	UG/L	34413		
X												Methyl Chloride	UG/L	34418		
X												1, 2 - trans - Dichloroethylene	UG/L	34546		
X												1, 2 Dichlorobenzene	UG/L	34536		
X												1, 3 Dichlorobenzene	UG/L	34566		
X												1, 4 Dichlorobenzene	UG/L	34571		

VALUE CODING RULES AND
REMARK CODES ON REVERSE

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

Form VWX-017
4/83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Lenox China, Inc. - Pomona | SW ID NO.

LAB NAME

U (1) | NJPDES NO. NJ 0 0 0 5 1 7 7 (2–8) | WELL PERMIT NO. (9–16) | SAMPLE DATE YR. MO. DAY (17–22) | NJ LAB CERT. NO. (23–27) | WQM USE (28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM MO. YR. TO MO. YR.

SUBMIT WITH SIGNED T-VWX-014

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
												Aldrin/Dieldrin	UG/L	39330		
												Benzidine	UG/L	39120		
												Calcium (dissolved)	MG/L	00915		
												DDT and Metabolites	UG/L	39370		
X			X			X			X			Nitrogen - Kjeldahl (dissolved)	MG/LAS N	00623		
												Magnesium (dissolved)	MG/L	00925		
												Phosphourus as P	MG/LAS P	00665		
												PCB's	UG/L			
X			X			X			X			Specific Conductance @25°C	umhos/cm	00095		
X			X			X			X			Fecal Coliform	N/100 ML	74055		
												Fecal Streptoccocus	N/100 ML	74056		

VALUE CODING RULES AND REMARK CODES ON REVERSE

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

Form VWX-015 A
4/83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

for wells 2,3and5

GROUND WATER ANALYSIS – MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME	LENOX CHINA, INC. POMONA	SW ID NO.
LAB NAME		

R (1)	NJPDES NO. NJ 0 0 0 5 7 7 (2–8)	WELL PERMIT NO. (9–16)	SAMPLE DATE YR. | MO. | DAY (17–22)	NJ LAB CERT. NO. (23–27)	WQM USE (28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM MO. YR. TO MO. YR.

SUBMIT WITH SIGNED T-VWX-014

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
X			X			X			X			Elevation of top of well casing with cap off (as specified in well completion report)	feet MSL: to nearest .01			
X			X			X			X			Elevation of original ground level (as specified in well completion report)	feet MSL: to nearest .01			
X			X			X			X			Depth to water table from top of casing prior to sampling with cap off	feet: to nearest .01	82546		
X			X			X			X			Depth to water table from original ground level prior to sampling	feet: to nearest .01	72019		
												Arsenic, Dissolved	UG/L as As	01000		
												Barium, Dissolved	UG/L as Ba	01005		
												Biochemical Oxygen Demand - 5 Day	MG/L	00310		
												Cadmium, Dissolved	UG/L as Cd	01025		
												Chloride, Dissolved	UG/L as Cl	82295		
												Chromium, Dissolved	UG/L as Cr	01030		
												Chromium, Dissolved, Hexavalent	UG/L as Cr	01220		
												Chemical Oxygen Demand (COD), Dissolved	MG/L	00341		
												Coliform Group	N/100 ML	74056		
												Color	Pt - Co	00080		
												Copper, Dissolved	UG/L as Cu	01040		
												Cyanide, Total	MG/L as CN	00720		
												Endrin, Total	UG/L	39390		
												Fluoride, Dissolved	MG/L as F	00950		
												Gross Alpha, Dissolved	Pc/L	01503		
												Gross Beta, Dissolved	Pc/L	03503		
												Hardness, Total as $CaCO_3$	MG/L	00900		
												Iron, Dissolved	UG/L as Fe	01046		
X			X			X			X			Lead, Dissolved	UG/L as Pb	01049		
												Lindane, Total	UG/L	39782		
												Manganese, Dissolved	UG/L	01056		
												Mercury, Dissolved	UG/L	71890		

VALUE CODING RULES AND REMARK CODES ON REVERSE

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

NEW [redacted]SEY DEPARTMENT OF ENVIRONMENTAL PROT[redacted]ION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – MONITORING WELL REPORT

For Wells 2,3 and 5

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: LENOX CHINA, INC. | SW ID NO.

LAB NAME

S (1) | NJPDES NO. NJ (2–8): 0 0 0 5 1 7 7 | WELL PERMIT NO. (9–16): - - | SAMPLE DATE YR. MO. DAY (17–22) | NJ LAB CERT. NO. (23–27) | WQM USE (28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM MO. YR. TO MO. YR.

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS												ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.					
												Methoxychlor, Total	UG/L	39480		
												Methylene Blue Active Substances	MG/L	38260		
												Nitrogen, Ammonia, Dissolved $NH_3 + NH_4$ as N	MG/L as N	00608		
												Nitrogen, Nitrate, Dissolved	MG/L as N	00618		
												Odor	T.O.N.	00085		
X			X			X			X			pH	Standard Units	00400		
												Phenols, Total Recoverable	UG/L	32730		
												Radium 226, Dissolved	Pc/L	09503		
												Radium 228, Dissolved	Pc/L	81366		
												Selenium, Dissolved	UG/L	01145		
												Silver, Dissolved	UG/L	01075		
												Sodium, Dissolved	MG/L	00930		
												Sulfate, Dissolved (as SO_4)	MG/L	00946		
X			X			X			X			Total Dissolved Solids (TDS)	PPM	70300		
X			X			X			X			Total Organic Carbon (TOC)	PPM	00680		
												Total Organic Halogen (TOX)	UG/L	70353		
												Toxaphene	UG/L	39400		
												Turbidity	NTU	00076		
												Zinc, Dissolved	UG/L	01090		
												2, 4–D, Total	UG/L	39370		
												2, 4, 5–TP, Total	UG/L	39045		

VALUE-CODING RULES AND
REMARK CODES ON REVERSE

29 33 34 40 41
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68 72 73 79 80

Form VWX-017
4/83

NEW J[illegible]Y-DEPARTMENT OF E[illegible]ONMENTAL PROTEC[illegible]ON
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

For Wells 2,3 and 5

GROUND WATER ANALYSIS – MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Lenox China, Inc. - Pomona | SW ID NO.

LAB NAME

U (1) | NJPDES NO. NJ 0 0 0 5 1 7 7 (2–8) | WELL PERMIT NO. (9–16) | SAMPLE DATE YR. MO. DAY (17–22) | NJ LAB CERT. NO. (23–27) | WQM USE (28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM MO. YR. TO MO. YR.

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS												ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.					
												Aldrin/Dieldrin	UG/L	39330		
												Benzidine	UG/L	39120		
												Calcium (dissolved)	MG/L	00915		
												DDT and Metabolites	UG/L	39370		
X			X			X			X			Nitrogen - Kjeldahl (dissolved)	MG/LAS N	00623		
												Magnesium (dissolved)	MG/L	00925		
												Phosphourus as P	MG/LAS P	00665		
												PCB's	UG/L			
X			X			X			X			Specific Conductance @25°C	umhos/cm	00095		
X			X			X			X			Fecal Coliform	N/100 ML	74055		
												Fecal Streptoccocus	N/100 ML	74056		

VALUE CODING RULES AND
REMARK CODES ON REVERSE

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68 72 73 79 80

NJS 002 325 076

1.F

State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WASTE MANAGEMENT
SOUTHERN REGION
RD 1 Route 70, Vincentown, NJ 08088
(609) 859-2958

John Trela
DIRECTOR

LINO F. PEREIRA
DEPUTY DIRECTOR

DEP- June 25, 1986

Lenox China
Tilton Road
Pomona, NJ 08240

Attention: Joseph A. Skladanek

Dear Mr. Skladanek:

Based upon information of present conditions at your facility, and with the local Fire Chief's agreement, the DEP grants Lenox China the petitioned exemption. Semi annual drills and inspections will no longer be required at Lenox China. Please be advised, however, that annual drills will be required.

The exemption is granted for present operating conditions. If any operating changes were to occur, a reexamination of the exemption may be necessary.

If you have any questions, please contact this office.

Sincerely,

Walter Burshtin

Walter Burshtin
Region Chief

FOS22:krb
cc: case file

RECEIVED JUL 3 1986

		YES	NO	N/A
	Does the records include the date, and time of the inspection, the name of the inspector, a notation of the observations made, and the date and nature of any repairs or other remedial action?	✓		
7:26-9.4(g)	Personnel training			
	Have facility personnel successfully completed a program of classroom instruction or on-the-job training within 6 months of having been employed?	✓		
7:26-9.4(g)2	Is the program directed by a person trained in hazardous waste management procedures and does it include instruction which teaches facility personnel hazardous waste management procedures (including contingency plan implementation) relevant to the positions in which they are employed?	✓		
7:26-9.4(g)5	If yes, have facility personnel taken part in an annual review of training? - On-going	✓		
	Is there written documentation of the following:	✓		
7:26-9.4(g)6i	Job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job?	✓		
7:26-9.4(g)6ii	A written job description for each position related to hazardous waste management?	✓		
7:26-9.4(g)6iii	A written description of the type and amount of both introductory and continuing training given to personnel in jobs related to hazardous waste management?	✓		
7:26-9.4(g)6iv	Documentation of actual training or experience received by personnel?	✓		
7:26-9.4(g)7	Are training records kept on all current employees until closure of the facility and training reocrds kept on former employees for 3 years from their last date of employment?	✓		
7:26-9.4(g)8	Are semi-annual drills conducted involving all employees and appropriate local authorities to test emergency response capabilities at the facility in accordance with the contingency plan and emergency procedures development pursuant to NJAC 7:26-9.7? Annual as per agreement 6/25/86	✓		

		YES	NO	N/A
7:26-9.6	Preparedness and prevention			
	Does the facility comply with preparedness and prevention requirements including maintaining:			
7:26-9.6(b)1	An internal communications or alarm system? walkie-talkies	✓		
7:26-9.6(b)2	A telephone or other device to summon emergency assistance from local authorities?	✓		
7:26-9.6(b)3	Portable fire equipment, spill control equipment, and decontamination equipment?	✓		
7:26-9.6(b)4	Water at adequate volume and pressure to supply water hose streams, or foam producing equipment, or automatic sprinklers, or water spray systems?	✓		
7:26-9.6(c)	Is equipment tested and maintained?	✓		
7:26-9.6(d)1	Is there immediate access to communications or alarm systems during handling of hazardous waste?	✓		
7:26-9.6(e)	Adequate aisle space to allow unobstructed movement of personnel fire protection equipment, spill control equipment and decontamination equipment?	✓		
	If no, please explain.			
	In your opinion, do the types of waste on site require all of the above procedures, or are some not required?	✓		
	Explain.			
7:26-9.6(f)	Has the facility made the following arrangements, as appropriate for tye type of waste handled on site?	✓		
7:26-9.6(f)1	Familiarize police, fire departments and emergency response teams with the layout of the facility and hazardous waste handled?	✓		

		YES	NO	N/A
7:26-9.6(f)2	Where more than one police and fire department might respond to an emergency, is there an agreement designating primary emergency authority to a specific police or fire department, and agreements with any others to provide support to the primary emergency authority?	✓		
7:26-9.6(f)3	Agreements with emergency response contractors, and equipment suppliers?	✓		
7:26-9.6(f)4	Arrangements to familiarize local hospitals with the properties of hazardous waste handled at the facility and the types of injuries or illnesses which could result from fires, explosions, or discharges at the facility?	✓		
7:26-9.6(f)5	Arrangements with local fire departments to inspect the facility on a regular basis with at least two (2) inspections annually? annual as per letter dated 6/25/86	✓		
7:26-9.7	Contingency plan and emergency procedures			
7:26-9.7(a)	Does the facility have a written contingency plan for emergency procedures designed to deal with fires, explosions, hazards to human health or environment, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil or surface water?	✓		
7?26-9.7(b)	Are provisions of the plan carried out immediately whenever there is a fire, explosion, or release of hazardous waste or hazardous waste constituents which could threaten human health or the environment?	✓		
7:26-9.7(c)	Does the contingency plan describe the actions facility personnel shall take in response to fires, explosions, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water at the facility?	✓		
7:26-9.7(d)	Did the owner or operator prepare a Spill Prevention, Control, and Countermeasures (SPCC) Plan in accordance with 40 CFR 112 or 151 or a Discharge Prevention, Containment and Countermeasure (DPCC) Plan in accordance with N.J.A.C. 7:1E-4.1 et seq.?	✓		
	If yes, did the owner or operator amend that plan to incorporate hazardous waste management provisions that are sufficient to comply with the requirements of this section?	✓		

August 9, 1985

Mr. Robert Gottardi
Senior Project Manager
Hanselman Contractors
609 W. White Horse Pike
PO Box 698
Cologne, NJ 08213

Dear Mr. Gottardi,

Enclosed please find a copy of the Lenox Contingency Plan for your information.

In addition, I am enclosing a copy of our General Location Plan and a Site Plan for you to familiarize yourself with in the event it is necessary to request assistance from your company in an emergency.

If you have any questions, please call me at 641-3700 EXT 336.

Sincerely,

Joseph Skladanek

Joseph A. Skladanek, P.E.
Plant Engineer

JAS/pm
Enclosures

7:26-9.7(e)	Does the plan describe arrangements agreed to by local police departments, fire departments, hospitals, contractors, and State and local emergency response teams to coordinate emergency services?	✓	—	—
7:26-9.7(f)	Does the plan list names, addresses, and phone numbers (office and home) of all persons qualified to act as emergency coordinator and is this list kept up-to-date? Where more than one person is listed, one shall be named as primary emergency coordinator and others shall assume responsibility as alternates.	✓	—	—
7:26-9.7(g)	Does the plan include a list of all emergency equipment at the facility (such as fire extinguishing systems, spill control equipment, communications and alarm systems (internal and external), and decontamination equipment), where this equipment is required? Is the list kept up-to-date? In addition, does the plan include the location and a physical description of each item on the list, and a brief outline of its capabilities?	✓	—	—
7:26-9.7(h)	Does the plan include an evacuation procedure for facility personnel where there is a possibility that evacuation could be necessary? Does this plan describe signal(s) to be used to begin evacuation, evacuation routes, and alternative evacuation routes (in cases where the primary routes could be blocked by releases of hazardous waste or fires)?	✓	—	—
7:26-9.7(i)	Is a copy of the contingency plan and all revisions to the plan:			
	1. Maintained at the facility; and	✓	—	—
	2. Has the contingency plan been submitted to local authorities (police, fire departments, emergency response teams)?	✓	—	—
7:26-9.8	Closure plan			
7:26-9.8(c)	Does the facility have a written closure plan?	✓	—	—
	Does the owner/operator keep a written copy of the closure plan and all revisions to the plan at the facility?	✓	—	—
	If yes, does the plan include:			

		YES	NO	N/A
7:26-9.8(e)1i	A description of how and when the facility will be partially closed (if applicable) and ultimately closed?	✓		
7:26-9.8(e)1ii	The maximum extent of the operation which will be open during the life of the facility?	✓		
7:26-9.8(e)2	An estimate of the maximum inventory of wastes in storage or in treatment at any given time during the life of the facility?	✓		
7:26-9.8(e)3	A description of the steps needed to decontaminate facility equipment during closure?	✓		
7:26-9.8(e)4	A schedule for final closure including the anticipated date when the wastes will no longer be received, the date when completion of final closure is anticipated, and intervening milestone dates which will allow tracking of the progress of closure?	✓		
	Post Closure Plan			
7:26-9.9(g)	Does the facility have a written post-closure plan kept at the facility?	✓		
	If yes, does the plan:			
7:26-9.9(i)	Identify the activities which will be carried on after closure and the frequency of these activities?	✓		
7:26-9.9(i)1	Include a description of the planned groundwater monitoring activities and frequencies at which they will be performed?	✓		
7:26-9.9(i)2	Include a description of the planned maintenance activities, and frequency at which they will be performed, to insure the following:	✓		
7:26-9.9(i)2i	The integrity of the cap and final cover or other containment structures where applicable? all wastes ordered non-hazardous insitu & disposed off-site	✓		✓
7:26-9.9(i)2ii	Describe the function of the facility monitoring equipment?	✓		
7:26-9.9(i)3	Include the name, address and phone number of a person or office to contact about the disposal facility during the post-closure period?	✓		
	Does the owner/operator have a written estimate of the cost of post-closure for the facility?	✓		
	If yes, what is it? $1,650,000 as of 8/6/85 will be revised shortly			

Please circle all appropriate activities and answer questions on indicated pages for all activities circled.

Storage	Treatment	Disposal
(Container) - pg. 9	Tank - pg. 12	Landfill - pg. 18
(Tank, above ground) - pg. 12	(Surface Impoundments) - pg. 15	
Tank, below ground - pg. 12	Incineration - pg. 20	(Surface Impoundments) - pg. 15
(Surface Impoundments) - pg. 15	Thermal Treatment - pg. 23	Other_____
Waste Piles - pg. 17		
Other_____	Chemical, Physical and Biological Treatment - pg. 25	
	Other_____	

		YES	NO	N/A
7:26-9.4(d)	Containers			
	What type of containers are used for storage? Describe the size, type, quantity and nature of wastes (e.g., 12 fifty-five gallon drums of waste acetone) 40 - 55 gallon drums - lead cement glaze 11 - 30 gallon plastic TCE sludge for incineration 2 - Above ground storage tanks - waste oil both 350 gals - one out of service			
7:26-10.4(b)	Is there a containment system for spills, leaks and precipitation?	✓		
	Is yes, describe the containment system.			
7:26-9.4(d)1i	Do the containers appear to be of sturdy leak-proof construction of adequate wall thickness, weld, hinge and seam strength, and of sufficient material strength to withstand side and bottom shock, while filled, without impairment of the container's ability to contain hazardous waste?	✓		
	If no, explain.			

		YES	NO	N/A
7:26-9.4(d)1ii	Are the lids, caps, hinges or other closure devices of sufficient strength that when closed, they will withstand dropping, overturning or other shock without impairment of the container's ability to contain hazardous waste? If no, explain.	✓		
7:26-9.4(d)2	Do the containers appear to be in good condition, not in danger of leaking?	✓		
7:26-9.4(d)2	If not, please describe the type, condition and number of leaking or corroded containers. Be detailed and specific.			
7:26-9.4(d)4i	Are all containers securely closed, except those in use, so that there is no escape of hazardous waste or its vapors? If no, explain.	✓		
7:26-9.4(d)4iii	Do containers appear to be properly opened, handled or stored in a manner which will minimize the risk of the container rupturing or leaking? If no, explain.	✓		
7:26-9.4(d)iv	Are containerized hazardous wastes segregated in storage by waste type?	✓		
7:26-9.4(d)v	Are containerized hazardous wastes arranged so that their identification label is visible?	✓		
7:26-9.4(d)3	Are hazardous wastes stored in containers made of compatible materials?	✓		

		YES	NO	N/A
7:26-9.4(d)5	Does the owner/operator inspect the container storage area at least daily, looking for leaks and for deterioration caused by corrosion or other factors?	✓		
7:26-9.4(d)6	Are containers holding ignitable and reactive waste located at least 50 feet (15 meters) away from the facility's property line?			
7:26-9.4(d)7i	Are incompatible wastes, or incompatible wastes and materials placed in the same container?		✓	
	If yes, explain.			
7:26-9.4(d)7ii	Are hazardous wastes placed in unwashed containers that previously held incompatible wastes?		✓	
	If yes, explain.			
7:26-9.4(d)7iii	Are containers holding hazardous waste that are incompatible with any waste or other materials, stored nearby in other containers, open tanks, or surface impoundments separated from the other materials or protected from them by means of a dike, berm, wall or other device?		✓	✓
7:26-9.4(e)1i	Are ignitable, reactive or incompatible wastes protected from sources of ignition or reaction?			✓
	If no, explain.			
7:26-9.4(e)1ii	Does the owner/operator confine smoking and open flames to specially designated locations when ignitable or reactive wastes are being handled?	✓		
	If no, explain.			

		YES	NO	N/A
7:26-9.4(e)1iii	Does the owner/operator conspicuously place "No Smoking" signs whenever there is a hazard from ignitable or reactive waste?	✓		
	Is the treatment, storage or disposal of ignitable or reactive waste, and the mixture of incompatible wastes and materials, conducted so that it does not:			
7:26-9.4(e)2i	Generate extreme heat or pressure, fire or explosion, or violent reaction?	✓		✓
7:26-9.4(e)2ii	Produce uncontrolled toxic mists, fumes, dusts, or gases in sufficient quantities to threaten human health?	✓		✓
7:26-9.4(e)2iii	Produce uncontrolled flammable fumes or gases in sufficient quantities to pose a risk or fire or explosion?	✓		✓
7:26-9.4(e)2iv	Damage the structural integrity of the device or facility containing the waste?	✓		
7:26-9.4(e)2v	Threaten human health or the environment?	✓		

7:26-11.2 Tanks

What are the approximate number and size of tanks containing hazardous waste?

2-350 gallon above ground tanks
only one in service at time of inspection

Identify the waste treated/stored in each tank.

waste oil X726 from compressor and vehicle servicing

General Operating Requirements

7:26-11.2(a)2	Are hazardous wastes or treatment reagents placed in the tank that could cause the tank or its inner liner to rupture, leak or corrode?		✓	
	If yes, please explain.			
	Are there leaking tanks?		✓	

		YES	NO	N/A
7:26-11.2(a)2	Are all hazardous wastes or treatment reagents being placed in tanks compatible with the tank material so that there is no danger or ruptures, corrosion, leaks or other failures?	✓	—	—
7:26-11.2(3)	Do uncovered tanks have at least 2 feet of freeboard or an adequate containment structure?	—	—	✓
7:26-11.2(a)4	If waste is continuously fed into a tank, is the tank equipped with a means to stop the inflow from the tank, e.g., bypass system to a standby tank?	—	—	✓
7:26-11.2(c)	Inspections			
	Is the tank(s) inspected for:			
	1. Discharge control equipment (each operating day)	✓	—	—
	2. Monitoring equipment (each operating day)	✓	—	—
	3. Level of waste in tank (each operating day)	✓	—	—
	4. Construction of materials of the tank (weekly)	✓	—	—
	5. Are the tanks and surrounding areas (e.g., dike) inspected weekly for leaks, corrosion or other failures (weekly)?	✓	—	—
7:26-9.2(b)	Are there underground tanks used to store hazardous waste?	—	✓	—
	If yes, how many and can they be entered for inspection?	—	—	✓
	Has the underground tank been in use on or before November 19, 1980? Specify date.	—	—	✓
	If no, when was the tank placed in use?			
7:26-11.2(e)	Are ignitable or reactive wastes stored in a manner which protects them from a source of ignition or reaction?	✓	—	—
	If no, please explain.			

		YES	NO	N/A
7:26-11.2(f)	Does it appear that incompatible wastes are being stored separate from each other?	✓		✓
7:26-9.2(b)3i	Does the facility have a groundwater monitoring plan approved by the Department?	✓		
7:26-9.2(b)3ii	Is the use of the tank specified to the manufacturers recommended lifetime? facility has no ug tanks for h.w. storage			✓
7:26-10.5(e)6	Are the underground tanks subjected to periodic integrity testing?			✓

		YES	NO	N/A
7:14A-6	Groundwater monitoring (Applies only to: surface impoundments, landfills, land disposal facilities)			
7:14A-6.2	Does the owner/operator have a groundwater monitoring plan approved by the Department and capable of determining the facility's impact on the quality of groundwater?	✓	—	—

If no, please explain.

How many monitoring wells has the facility installed? 10
1 abandoned
well #5 = 1 piezometer - measures g.w. level

What is the depth to groundwater? from top of casing as of 1/6/87
(1) 10' (5) 5.6' (9) 11'
(2) abandoned (6) 6.3' (10) 5'
(3) 9' (7) 7.9'
(4) 5' (8) 6.1'

How many deep monitoring wells are onsite? (Indicate depth of monitoring wells)

none

How many shallow monitoring wells are onsite? -10
(Indicate depth of monitoring wells)
(1) 28' (5)
abandoned (2) 29' (6) 28' (9) 29.6'
(3) 28' (7) 26' (10) 31.4'
(4) 24' (8) 28'

7:14A-6.3(a)	Is the groundwater monitoring system capable of yielding groundwater samples for analysis?	✓	—	—

If no, please explain.

7:14A-6.3(a)1	Are monitoring wells installed hydraulically upgradient?	✓	—	—

If yes, specify how many and the depth of each.

(1) well #1 = 28'

		YES	NO	N/A
7:14A-6.3(a)2	How many monitoring wells are installed hydraulically down gradient? 8	✓	—	—
	If yes, specify how many and the depth of each. 29', 28', 24', 26', 28', 28', 29.6', 31.4'			
7:14A-6.4(a)	Does the owner/operator have a groundwater sampling and analysis plan?	✓	—	—
	If no, please explain. Have NJPDES permit # 0005177			
7:14A-6.4(a)	Does the plan include procedures and techniques for:			
	1. Sample collection	✓	—	—
	2. Sample preservation and shipment	✓	—	—
	3. Analytical procedures	✓	—	—
	4. Chain of custody	✓	—	—
7:26-11.3	Surface Impoundments			
	Describe the design and operating features of the surface impoundment to prevent groundwater contamination (e.g., liner leachate collection system). basins dredged periodically			
	Give the approximate size of surface impoundments (gallons or cubic feet). Please specify the types of waste stored and treated. Slip basin - 8000 yd3 or 1.5 mg Glaze basin - not operating, under closure Secondary Polishing pond - .11mg Tilton Rd Pond - .125 mg			
7:26-11.3(a)	Is there at least 2 feet of freeboard in the impoundment?	✓	—	—

		YES	NO	N/A
7:26-11.3(b)	Do all earthen dikes have a protective cover to preserve their structural integrity? If yes, please specify the type of covering.	✓		
7:26-9.4(b)1	Does the owner/operator have a detailed chemical and physical analysis of a representative sample of the waste in the impoundment?	✓		
7:26-9.4(c)2	Does the owner/operator place the results from each waste analysis and trial test, or the documented information, in the operating record of the facility?	✓		
7:26-11.3(d)	Does the owner or operator inspect:			
7:26-11.3(d)1	The freeboard level at least once each operating day to ensure compliance with subsection 11.3(a)?	✓		
7:26-11.3(d)2	The surface impoundment, including dikes and vegetation surrounding the dike, at least once a week to detect any leaks, deterioration or failures in the impoundment?	✓		
7:26-11.3(f)	Is ignitable or reactive waste placed in the surface impoundment?		✓	
7:26-11.3(f)1	If yes, is the waste treated, rendered, or mixed before or immediately after placement in the impoundment?			✓
7:26-11.3(f)1i	Does the resulting waste, mixture, or dissolution of material no longer meet the definition of ignitable or reactive waste?			✓
7:26-11.3(f)1ii	Is the waste treated, rendered or mixed so that it does not:			
7:26-9.4(e)2i	Generate extreme heat or pressure, fire or explosion, or violent reaction?	✓		
7:26-9.4(e)2ii	Produce uncontrolled toxic mists, fumes, dusts, of gases in sufficient quantities to threaten human health?	✓		
7:26-9.4(e)2iii	Produce uncontrolled flammable fumes or gases in sufficient quantities to pose a risk of fire or explosion?	✓		

		YES	NO	N/A
7:26-9.4(e)2iv	Damage the structural integrity of the device or facility containing the waste?	✓		
7:26-9.4(e)2v	Threaten human health or the environment?	✓		
7:26-11.3(f)2	Is the surface impoundment used soley for emergencies?		✓	
7:26-11.3(g)	Are incompatible wastes, or incompatible wastes and materials placed in the same surface impoundment?		✓	
	If yes, is the waste managed so that it does not:			
7:26-9.4(e)2i	Generate extreme heat or pressure, fire or explosion, or violent reaction?			✓
7:26-9.4(e)2ii	Produce uncontrolled toxic mists, fumes, dusts, or gases in sufficient quantities to threaten human health?			✓
7:26-9.4(e)2iii	Produce uncontrolled flammable fumes or gases in sufficient quantities to pose a risk or fire or explosion?			✓
7:26-9.4(e)2iv	Damage the structural integrity of the device or facility containing the waste?			✓
7:26-9.4(e)2v	Threaten human health or the environment?			✓
	Waste Piles N/A			
	How many waste piles are on-site and approximately how large are they? (Please indicate size and height and types of wastes in piles.)			
	Is the waste pile protected from wind erosion?			
	a) Does it appear to need such protection?			
	b) Explain what type of protection does exist.			
7:26-9.3(a)5i	Is the waste pile larger than 200 cubic yards?			

NYJ 002 325 074

Let's protect our earth

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
CN 029
TRENTON, NEW JERSEY 08625

GEORGE G. McCANN, P.E.
DIRECTOR

DIRK C. HOFMAN, P.E.
DEPUTY DIRECTOR

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Albert J. Gustray
Facilities Engineering
Lenox China, Inc.
Tilton Road
Pomona, N. J. 08240

PE&E - FEB 23 1988

Dear Mr. Gustray,

Re: Major Modification of NJPDES Permit # NJ0005177
Closure authorization for Hazardous Waste Lagoon (Glaze Basin only)

Attached is a draft Major Modification to a New Jersey Pollutant Discharge Elimination System (NJPDES) permit that has been issued pursuant to N.J.A.C. 7:14A-1 et seq. This major modification is added to and made part of your Permit and is written to implement closure of the RCRA regulated unit known as the glaze basin. It allows you to discharge to the Ground Waters of the State within the limits established in the attached conditions. This major modification is issued in accordance with the New Jersey Pollutant Discharge Elimination System Regulations, N.J.A.C. 7:14A-1 et seq. All previously implemented ground water monitoring requirements are superseded by this permit. Otherwise, unless specifically mentioned in this major modification, you are not relieved from any of the requirements of the previously issued permit.

Please be aware of the following provisions of this permit:

1) Any existing wells must be certified by a licensed New Jersey Professional Engineer, a duly authorized representative, or an executive officer, and must be surveyed by a licensed New Jersey Land Surveyor. If the construction details or locations are unknown or cannot be determined, then a new well must be drilled.

2) New ground water monitoring wells must be drilled within the time specified in the permit and certifications to location and construction shall be submitted in accordance with the

conditions of the permit.

3) New Jersey State well permits shall be obtained for all new wells and any existing wells that were drilled without valid well permits.

4) Samples must be analyzed by a New Jersey Certified laboratory at the frequency and for the parameters specified in the permit.

5) Data must be submitted on the enclosed state forms. Data which is not submitted on the state forms does not meet the reporting requirements of this permit. Data submitted for water analysis from uncertified wells is likewise unacceptable and does not fulfill the reporting requirements of the permit.

6) Please be advised that failure to meet the conditions of the permit can result in the imposition of substantial administrative, civil, and criminal penalties.

The appearance of the public notice in the newspapers marks the commencement of the 30-day public comment period required by Section 8.1 of the NJPDES regulations. During this time frame, both the permittee and concerned citizens may offer comments regarding the terms and conditions of this draft permit major modification. All comments must be submitted within the appropriate time frame and in writing to:

Administrator
Water Quality Management Element
Division of Water Resources
CN-029
Trenton, New Jersey 08625

If you have any questions regarding this permit modification, please contact Sarah Kinsel of my staff at (609) 292-8427.

Sincerely yours,

Kenneth Siet, Section Chief
Ground Water Quality Control

WQM 290

Enclosures

GROUND WATER MONITORING REQUIREMENTS AND STANDARDS

1. The locations of all the ground water monitor wells required to be sampled or monitored are shown on Figure 1, Part III-DGW, Page 7 of 7.

2. The permittee shall provide the Ground Water Quality Control Section with a minimum of two weeks notification prior to the installation of any ground water monitor wells at the site.

3. The owner or operator shall inspect each ground water monitor well on a weekly basis for structural integrity and/or damage. The permittee shall maintain a complete inspection record indicating dates of inspection, inspector's name, and conditions observed. These records shall be made available to the Department upon request. Failure to maintain or submit records upon request shall be a violation of the conditions of this permit.

4. The permittee is required to take any and all reasonable steps necessary to limit public access to monitoring or recovery wells, treatment systems, or any other potentially harmful or easily damaged equipment on the site by constructing fences, barricades, or any other structures or means necessary to restrict access to the equipment. Said structures must be maintained to restrict access.

5. If the monitor wells are damaged or are otherwise rendered inadequate for their intended purpose, the Administrator, Water Quality Management Element, shall be notified within five (5) days in writing indicating:

   (a) Which wells were damaged or rendered inadequate for their intended use;

   (b) The cause and extent of damage or the reason for the inadequacy;

   (c) If the sampling schedule as required in this permit will be violated or if the results of the sampling may reasonably become misleading;

   (d) The date that the well will again be operational.

   Damaged wells must be replaced or repaired within 60 days after the damage has occurred. If any of the following situations have occurred, redeveloped or replacement wells must be sampled not prior to 14 days after development but no later than 28 days after installation:

Situation 1: Wells have been damaged in a way that affected the quality of previously taken ground water samples.

Situation 2: Due to damage to a well a regularly scheduled sampling event has been missed.

Note: Wells in situation 1 above that do not have to be redeveloped (only purged) must be sampled within five days of the discovery of the damage. If the next regularly scheduled sampling for the well(s) is within 21 days of the last day the well(s) should be sampled under 1 or 2 above, only the regular sampling event is required.

(e) The next date that the well will be sampled;

A replacement well must meet the construction requirements established by the Department. A valid New Jersey well permit is required prior to the installation of the replacement well. Failure to follow these procedures is a violation of this permit and may subject the permittee to the provisions of N.J.S.A. 58:10A-10.

6. As a precaution against cross contamination (in addition to complete decontamination of purging and sampling equipment pursuant to Department requirements), monitoring wells must be sampled in order of least to most contaminated unless dedicated purging and sampling equipment are used for all wells.

7. The permittee shall complete the forms required on the "Monitoring Report - Transmittal Sheet" (Form T-VWX-014) which is included as a part of this permit. Failure to submit sampling data on the forms required on the "Monitoring Report - Transmittal Sheet" shall be considered by the Department to be a violation of the permit sampling requirements and may place the permittee subject to civil and administrative penalties pursuant to N.J.S.A. 58:10A-10. It shall be solely the permittee's responsibility to maintain an adequate supply of the required report forms.

The original copy of the report forms with the proper signatures on the transmittal sheets shall be sent to :

Department of Environmental Protection
Division of Water Resources
Water Quality Management Element
Bureau of Permits Administration
CN-029
Trenton, NJ 08625

ATTN: Monitoring Well Reports

A complete copy of the entire report (including QA/QC Package) shall be sent to:

Ground Water Quality Control Section
Division of Water Resources
Water Quality Management Element
Bureau of Permits Administration
CN-029
Trenton, NJ 08625

ATTN: S. Kinsel

8. Satisfactory ground water wells are defined in Section 6.13 of the NJPDES regulations and shall be subject to Departmental approval. If ground water monitoring wells do not meet these standards, they must be replaced with new wells meeting Departmental standards.

9. A Ground Water Monitor Well Certification (Forms A and B) shall be completed for each existing and proposed ground water monitor well within 30 days of the installation of the ground water monitor wells. Information for each well must be shown on a separate form.

10. For an existing well, if information required on the Ground Water Monitoring Certification (Forms A and B) cannot be determined or the ground water monitoring well is not adequately constructed to meet the requirements of this permit, the Department reserves the right to require the replacement of that well. Criteria to be used by the Department in judging the adequacy of a well will be related to the ability of the well to provide a representative ground water sample from the portion of the aquifer which the Department requires to be sampled. Any replacement well must be installed within a 10 foot radius of the existing well. Inadequate or damaged existing wells must be properly sealed pursuant to N.J.A.C. 58:4A-4.1. Instructions regarding sealing may be obtained by contacting the Water Allocation Office at (609) 984-6831.

11. Attachment 1 (Quality Assurance/Quality Control (QA/QC) Package) shall be completed and submitted for each sampling event. This shall include sections A, B, C, D, and the applicable portions of section E.

12. The permittee must develop and/or update and follow a ground water sampling and analysis plan which is in accordance with Chapter 4 of the U. S. EPA's RCRA Ground Water Monitoring Technical Enforcement Guidance Document (OSWER-9950.1, September, 1986). The plan must include procedures and techniques for sample collection, sample preservation and shipment, analytical procedures and chain of custody control. The plan is to be kept at the facility and be

available for Department review upon request. A copy of this plan must be submitted to the Ground Water Quality Control Section at the address specified in Part III-item 8 of this permit within thirty (30) days of the effective date of the permit.

13. The permittee shall sample a total of 8 ground water monitor wells, including MW-1,-3, -4, -6, -7, -8, -9, -10, according to the schedule in Table 1 below. The requirement to sample and analyze for volatile organic compounds only applies to monitoring wells 1, 3, 6, 9, and 10. All volatile organic compounds must be reported, but the Department is only giving maximum contaminant levels (MCL's) for trichloroethylene and its breakdown products at this time. The piezometer (P5) shall be monitored for water level elevations only, according to the schedule given in Table 1. All ground water elevations must be determined prior to evacuation and sampling of the wells. Sampling of the wells shall be performed according to the methodology specified in Section 6.12 of the NJPDES regulations and Chapter 4 of U.S. EPA's RCRA Ground Water Monitoring Technical Enforcement Guidance Document (OSWER-9950.1, September, 1986). A chain of custody record for each sample shall be maintained at the facility and may be requested and/or examined by the Department. The permittee or his/her agent shall evacuate the ground water monitoring wells according to the procedures identified in Section 6.12 of the NJPDES regulations no more than four hours prior to sample collection.

TABLE 1

PARAMETER	GROUND WATER PROTECTION STANDARD	SAMPLING MONTH	SAMPLE TYPE	REPORTING MONTH
Elevation of top of monitor well casing (to be determined once but reported as indicated)		FebMayAugNov	N/A	MarJunSeptDec
Depth to Water Table from top of casing prior to sampling		FebMayAugNov	N/A	MarJunSeptDec
Depth to Water Table from original ground level prior to sampling		FebMayAugNov	N/A	MarJunSeptDec
Ammonia-Nitrogen	0.5 ppm	FebMayAugNov	grab(1)	*MarJunSeptDec
Barium	1.0 ppm	FebMayAugNov	grab	MarJunSeptDec
Chemical Oxygen				

Demand (COD)		ppm	FebMayAugNov	grab	MarJunSeptDec
Chloride	250	ppm	FebMayAugNov	grab	MarJunSeptDec
Coliform Bacteria	(2)*		FebMayAugNov	grab	MarJunSeptDec
Color	none		FebMayAugNov	grab	MarJunSeptDec
Copper	1.0	ppm	FebMayAugNov	grab	MarJunSeptDec
Cyanide	0.2	ppm	FebMayAugNov	grab	MarJunSeptDec
Iron	0.3	ppm	FebMayAugNov	grab	MarJunSeptDec
Lead & Compounds	0.05	ppm	FebMayAugNov	grab	MarJunSeptDec
Manganese	0.05	ppm	FebMayAugNov	grab	MarJunSeptDec
Mercury & Compounds	0.002	ppm	FebMayAugNov	grab	MarJunSeptDec
Nitrate Nitrogen	10.0	ppm	FebMayAugNov	grab	MarJunSeptDec
Odor	none		FebMayAugNov		MarJunSeptDec
pH	5-9	SU	FebMayAugNov	grab	MarJunSeptDec
Phenols	0.3	ppm	FebMayAugNov	grab	MarJunSeptDec
Selenium & Compounds	0.01	ppm	FebMayAugNov	grab	MarJunSeptDec
Silver & Compounds	0.05	ppm	FebMayAugNov	grab	MarJunSeptDec
Sodium	50	ppm	FebMayAugNov	grab	MarJunSeptDec
Specific Conductance	(umho/cm)		FebMayAugNov	grab	MarJunSeptDec
Sulfate	250	ppm	FebMayAugNov	grab	MarJunSeptDec
Total Dissolved Solids (TDS)	500	ppm	FebMayAugNov	grab	MarJunSeptDec
Total Organic Carbon (TOC)		ppm	FebMayAugNov	grab	MarJunSeptDec
Total Volatile Organics: (by GC/MS)	(3)*		FebMayAugNov	grab	MarJunSeptDec
trichloroethylene	1	ppb			
1,1-Dichloroethylene	2	ppb			
cis- and trans- 1,2-Dichloroethylene	10	ppb			
vinyl chloride	5	ppb			
Zinc & Compounds	5	ppm	FebMayAugNov	grab	MarJunSeptDec

NOTES:

(1)*

"Grab" means an individual sample of at least 100 milliliters collected over a period not exceeding 15 minutes.

(2)*

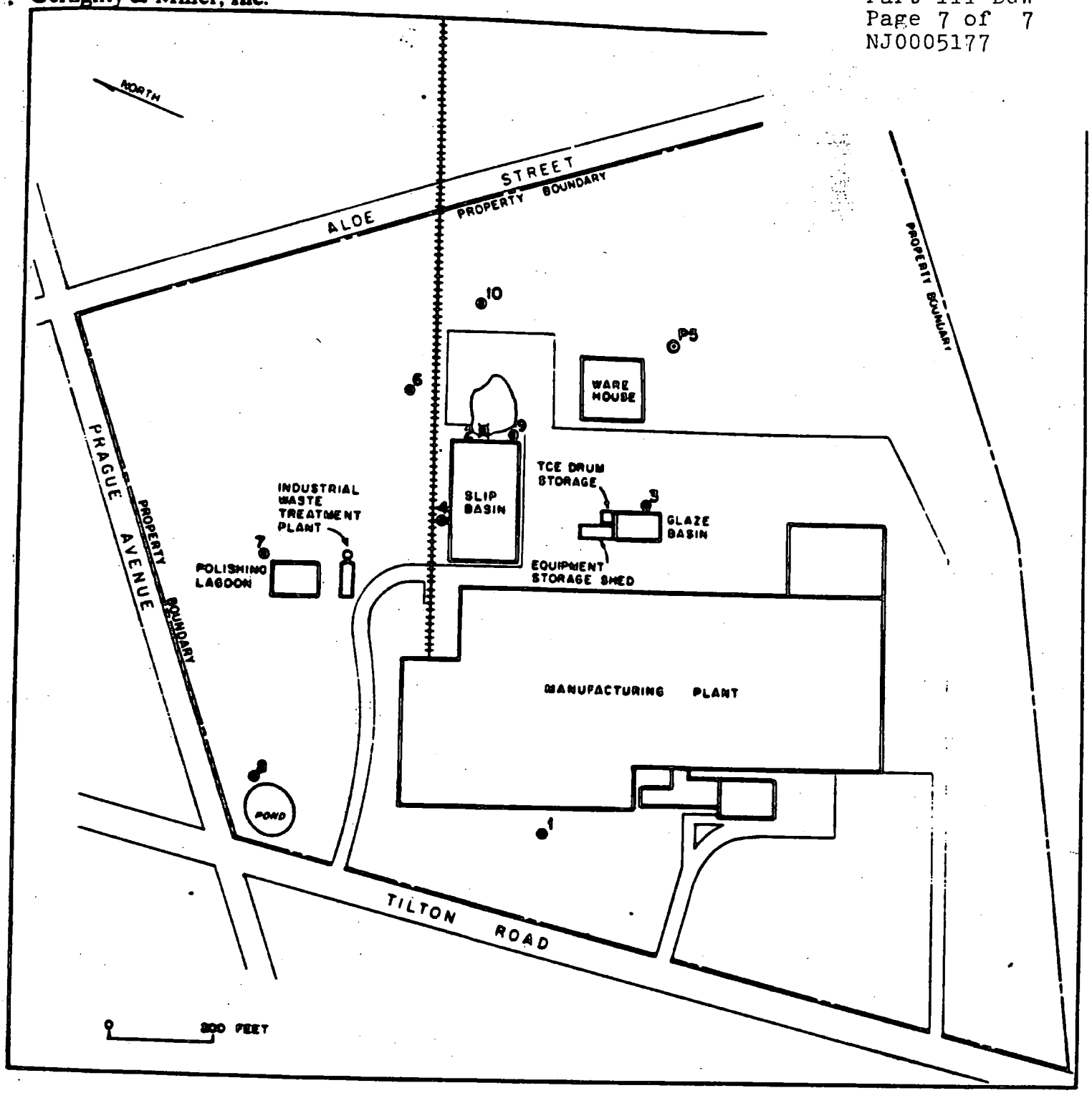
A. By membrane filtration, not to exceed four per 100 ml in more than one sample when less than 20 are examined per month, or

B. by fermentation tube, with a standard 10 ml portion, not to be present in three or more portions in more than one sample when less than 20 are examined per month, or

C. prevailing criteria adopted pursuant to the Federal Safe Drinking Water Act (PL 93-523).

(3)*

1. 40 CFR Part 136 Method 624 shall be used to identify and monitor for the volatile organic compounds identified in Appendix B of the NJPDES regulations. The GC/MS method 624 shall be utilized until the concentration of the constituents reach the ground water protection standard. If the method 624 method detection limit is higher than the ground water protection standard, 40 CFR Part 136 Methods 601, 602 and/or 603 shall then be utilized until the mandated ground water protection standards are achieved.



EXPLANATION

- ● MONITORING WELL
- ⊖ PIEZOMETER
- ⊠ ABANDONED MONITORING WELL
- □ WASTE TREATMENT/ STORAGE AREAS

FIGURE 1

FACILITY MAP

Lenox China, Pomona, New Jersey

Andy

NYJ002 325074 Jimmy, please make 2 copies of these. Tx. Andy Pack

LENOX
INCORPORATED
100 LENOX DRIVE
LAWRENCEVILLE, NEW JERSEY 08648-2394

STEPHEN F. LICHTENSTEIN
SENIOR VICE PRESIDENT
SECRETARY & GENERAL COUNSEL

~~APR~~ April 4, 1988

Mr. Arnold Schiffman, Administrator
Water Quality Management Element
Division of Water Resources
CN-029
Trenton, New Jersey 08625

Re: Major Modification of NJPDES Permit # NJ0005177
Closure Authorization for Hazardous Waste Lagoon
(Glaze Basin Only)

Dear Mr. Schiffman:

This letter is submitted as the comments of the Applicant, Lenox China, a Division of Lenox, Incorporated, in response to the proposed modification to its New Jersey Pollutant Discharge Elimination System (NJPDES) Permit concerning the Glaze Basin located at its fine china manufacturing facility on Tilton Road, Pomona, New Jersey:

I. FACT SHEET

1. The name of the Applicant should be changed to "Lenox China, a Division of Lenox, Incorporated".

2. The name of the Facility where the discharge occurs should be changed to "Lenox China".

3. The last sentence of the Description of Facility should be changed to read:

> Associated process wastes include clay solution waste (slip) and glaze waste (fritted lead compounds).

4. The first sentence of the Description of Discharge should be changed to read as follows:

> "The facility has two hazardous waste lagoons, one used for the storage of clay waste (slip basin) and one used for the storage of glaze waste (glaze basin)."

484 9734 - Al Gastray

The next to last sentence under the first paragraph of Description of Discharge should be changed to read:

> "Use of this unit was discontinued in August 1987 when Lenox began using their modified waste treatment and former sanitary plant facilities to handle process waste water."

Add the following sentence at the end of the second paragraph of the Description of Discharge:

> "Except for possible soil residues, the wastes have been completely removed."

II. PERMIT

1. The name of the Permittee should be changed to Lenox China, a Division of Lenox, Incorporated.

2. The name of the property owner should be changed to Lenox, Incorporated, 100 Lenox Drive, Lawrenceville, New Jersey 08648.

3. The location of activity should be changed to read:

> "Lenox China"

III. GROUNDWATER MONITORING REQUIREMENTS AND STANDARDS

Paragraph 13 sets forth the requirements for groundwater monitoring wells. The modification of the NJPDES Permit being proposed specifically is only for the Glaze Basin. Lenox urges that the groundwater monitoring requirements and standards be limited to those reasonably necessary for the Glaze Basin. As the Administrator is aware, Lenox maintains monitoring wells with regard to other activity regulated by and under the supervision of the Department of Environmental Protection. Lenox feels strongly that the modification of the NJPDES Permit with regard to the Glaze Basin should be limited to the Glaze Basin in order to avoid confusion not only on the part of the

DEP but also of the public. It is in this context that comments with regard to Paragraph 13 are submitted.

1. Based on an analysis of five (5) years of water-level data, the only water quality monitoring wells that can be considered either up or down gradient of the Glaze Basin are Wells #1, #3, #6, #9 and #10. Samples for water quality analyses with regard to the Glaze Basin should be taken only from these five (5) wells.

2. Based on the nature of the Glaze Basin and available monitoring data, there is no reason to require testing of groundwater for volatile organic compounds (VOC's). Throughout its use, the Glaze Basin has received only inorganic glaze wastes. The use of organic solvents at the Lenox plant is completely separate from the glaze operations, and monitoring data, especially from Well #3, which is directly down gradient of the Glaze Basin, has confirmed that organics have not inadvertently made their way into the basin. Post-closure monitoring requirements for the Glaze Basin (a RCRA Basin) should reflect its use and chemistry. VOC's do not fall into this category and the proposed requirement to analyze for them is unreasonable.

   It is Lenox's understanding that the purpose for requiring analysis of VOC's has no connection with the Glaze Basin but rather is in connection with an investigation being conducted by Lenox into the presence of trichloroethylene (TCE) in the groundwater. Lenox China has submitted seven (7) sets of data for Well #10 and 6 measurements for many of the other wells with regard to its TCE investigation, which is continuing, and the requirement of monitoring for VOC's in this permit action concerning the Glaze Basin will not add anything to that data.

3. Notwithstanding Lenox China's position that VOC's should not be part of the monitoring requirements of this modification of its NJPDES Permit, if the

Department of Environmental Protection decides that it will require monitoring for VOC's, the permit action should clarify that the monitoring for VOC's is not a part of the cleanup and post-closure monitoring for the Glaze Basin and will be treated separately in the permit action. Further, if monitoring for VOC's is going to be required, the frequency should not be quarterly but either annually or at the most semi-annually.

4. Paragraph 13, Table I provides a groundwater protection standard of one part per billion of trichloroethylene. Lenox China urges, if sampling for VOC's is required, that the Department reconsider the use of such a restrictive and conservative standard. The one part per billion standard is the limit that Lenox China understands will be adopted for drinking water. The use of such a standard for monitoring wells is not consistent with this use for drinking water. The Department should consider an alternate concentration limit for TCE in groundwater that is not as severely restrictive as the standard that applies to water being delivered for human consumption.

5. The VOC's listed in Paragraph 13 and in the forms accompanying Paragraph 13 include:

1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
Bis(chloromethyl) ether
Dichlorodifluoromethane
Trichlorofluoromethane

The first three listed are non-volatile priority pollutants and the second three are non-USEPA volatile priority pollutants. These should be removed from the requirements for monitoring.

6. Many of the inorganic and indicator constituents listed in Paragraph 13 and the forms accompanying it are inappropriate because they do not reflect facility chemistry and, during six (6) years of

monitoring, have not been shown to be a problem. If clean closure is achieved, it is presumed that no monitoring would be required at all. If clean closure is not achieved, Lenox petitions for the following analytical list:

Ammonia nitrogen	Sodium
Color	Specific Conductance
Lead	Sulfate
Mercury	Total dissolved solids
pH	Zinc

Exhibit A provides a complete list of chemicals that the proposed action specifies for testing and an explanation for each constituent that Lenox believes are inappropriate for monitoring the Glaze Basin.

IV. SPECIAL CLOSURE CONDITIONS FOR THE RCRA LAGOON (GLAZE BASIN) AT LENOX CHINA

1. Paragraph C(3) requires procedures to contain possibly contaminated groundwater purged from monitoring wells during sampling. Lenox urges that this not be included as a requirement since the minimal amount of water involved will not spread contamination. Lenox does not anticipate conditions that will require containment of purged water and the revised sampling plan will reflect this judgment. Lenox China asks that Paragraph C(3) be deleted from the Special Closure Conditions.

2. Paragraph E permits the treatment in Lenox's industrial waste water treatment facility of standing liquids and collected rain water and wash water from equipment decontamination. Lenox China requests that the Permit Action permit the handling of such water as set forth in the February 11, 1988 letter from Geraghty & Miller, Inc. to Mr. Kenneth Siet, Chief of the Groundwater Quality Control Section, a copy of which is attached to these comments.

3. Paragraph M lists CEC units as mg/kg. These probably should be listed as milliequivalents per 100 grams of soil (meq/100 g).

4. Paragraph O requires the submission of a detailed contingency closure/post-closure plan within fifteen (15) days of the receipt of soil sample analyses. Lenox China requests thirty (30) days for the submission of the detailed contingency plan. The additional time would have no adverse impact on the Glaze Basin closure.

V. Lenox China is concerned that the proposed modification action does not provide for relief from the monitoring requirements if Lenox China achieves a clean closure or if, after closure, all maximum contamination limits are met. Lenox China requests that the permit action deal with these issues.

Lenox China respectfully urges the Department to issue its final permit decision in accordance with the comments submitted in this letter.

Very truly yours,

LENOX CHINA, a Division of
LENOX, INCORPORATED

Stephen F. Lichtenstein

SFL:bp

EXHIBIT A
Rationale For Elimination of Various Monitoring Parameters
Glaze Basin Closure, Lenox China Facility, Pomona, New Jersey

	Appropriate for Monitoring	COMMENTS
Ammonia-Nitrogen	Yes	
Barium	No	Not indicative of wastes; ground water never exceeds drinking water standard
Chemical Oxygen Demand (COD)	No	Inorganics in basin are not expected to create COD
Chloride	No	Not indicative of wastes; ground water never exceeds drinking water standard
Coliform Bacteria	No	Only inorganic wastes placed in basin
Color	Yes	
Copper	No	Not indicative of wastes.
Cyanide	No	Not indicative of wastes.
Iron	No	Naturally present in all wells at moderate levels.
Lead & Compounds	Yes	
Manganese	No	Naturally present in all wells at moderate levels.
Mercury & Compounds	Yes	
Nitrate Nitrogen	No	Not indicative of wastes; ground-water exceeded drinking water standard only in background well #1.

EXHIBIT A
Rationale For Elimination of Various Monitoring Parameters
Glaze Basin Closure, Lenox China Facility, Pomona, New Jersey

	Appropriate for Monitoring	COMMENTS
Odor	No	Not indicative of wastes
pH	Yes	
Phenols	No	Not indicative of wastes; ground water rarely exceeds standard
Selenium & Compounds	No	Not indicative of wastes; ground water rarely exceeds standard
Silver & Compounds	No	Not indicative of wastes; ground water rarely exceeds standard
Sodium	Yes	
Specific Conductance	Yes	
Sulfate	Yes	
Total Dissolved Solids (TDS)	Yes	
Total Organic Carbon (TOC)	No	Not indicative of wastes
Total Volatile Organics	No	Analytes not present in facility nor in immediate vicinity; see discussion under comments for Part III-DGW, page 4 of 7, item 13
Zinc & Compounds	Yes	

GERAGHTY
& MILLER, INC.
Ground-Water Consultants
Our 30th year

February 11, 1988

VIA FEDERAL EXPRESS

Mr. Kenneth Siet, Chief
Ground Water Quality Control Section
New Jersey DEP
Division of Water Resources
401 East State Street, 2nd Floor East
Trenton, New Jersey 08625

Re: Glaze Basin Closure Plan, Lenox China Facility, Pomona, Task 2. Removal of standing liquids to on-site wastewater treatment plant.

Dear Mr. Siet:

Geraghty & Miller, Inc. has been asked by Lenox China to respond to your February 1, 1988 letter, which requests information related to treatment of water generated during the closure of its Glaze Basin.

An estimated 1000 gallons of wash water and standing water is expected to be generated during the closure procedures. This volume encompasses the small amount of water present on the tarpaulin and the amounts to be generated during cleaning of excavation equipment, sampling equipment, and contaminated parts of hauling vehicles.

The current plan is to place this water into the nearby Slip Basin, which already has standing water. The Slip and Glaze Basins both have leaded waste, and the small amount of waste water from Glaze Basin Closure operations will not have an impact on the closure plan for the Slip Basin.

125 East Bethpage Road • Plainview, New York 11803 • (516) 249-7600
Cable: WATER • Telecopy: (516) 249-7610

Please contact me or Mr. A. J. Gustray at Lenox if additional questions arise with respect to closure of the Glaze Basin.

Sincerely,

GERAGHTY & MILLER, INC.

Robert A. Saar

Robert A. Saar, Ph.D.
Senior Consultant

RAS:ts
cc: Ellen Neebling, Bureau of
Industrial Waste Management,NJDEP
A.J. Gustray, Lenox
F.J. Manley, Lenox
F.H. Inyard, Eder Associates

2/26/88

The wells do not appear adequate for the glaze basin. However there is contamination directly adjacent to the basin from a SWMU. It would therefore not be possible to install wells there. The wells were placed to best monitor the contamination, considering the circumstances.

Andy checked the calculations for risk based upon the acceptable levels indicated in the permit for soils and levels considered safe. The calculations are attached to the checklist, which is attached to his review.

B.T.

copy to Ordyard logged (doc) - 3 copies
NYJ 002 325 074 IF

ENVIRONMENTAL PROTECTION AGENCY REGION II

88 MAY 23 AM 11:09

HAZARDOUS WASTE FACILITIES BRANCH

Let's protect our earth

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
CN 029
Trenton, N.J. 08625-0029

George G. McCann, P.E.
Director

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Stephen F. Lichtenstein
Lenox, Inc.
100 Lenox Drive
Lawrenceville, NJ 08648-2394

MAY 18 1988

Re: Issuance of Major Modification of Lenox China NJPDES-DGW Permit No. NJ0005177 for Closure

Dear Mr. Lichtenstein:

Enclosed is the final NJPDES Discharge to Ground Water Permit Modification issued in accordance with the New Jersey Pollutant Discharge Elimination System Regulations, N.J.A.C. 7:14A-2 et seq. The requirements of the existing permit remain in full force and effect unless specifically addressed as a modification by this permit. Violation of any condition of this permit may subject you to significant penalties.

Within 30 calendar days following your receipt of this permit, under N.J.A.C. 7:14A-8.6 you may submit a request to the Administrator for an adjudicatory hearing to reconsider or contest the conditions of this permit. Regulations regarding the format and requirements for requesting an adjudicatory hearing may be found in N.J.A.C. 7:14A-8.9 through 8.13. The request may be sent to :

Administrator
Water Quality Management Element
Division of Water Resources
CN-029
Trenton, New Jersey 08625

Applications for renewal of this permit must be submitted at least 180 days prior to expiration of this permit pursuant to

N.J.A.C. 7:14A-2.1 (f) 5.

If you have any questions on this action, please contact Sarah Kinsel at (609) 292-8427.

Sincerely,

Kenneth Siet, Chief
Ground Water Quality Control Section

WQM290

Enclosures

Lenox China
Pomona, NJ

Major Modifications to NJPDES/DGW Permit #NJ0005177

RESPONSE TO COMMENTS DOCUMENT

The following responses are offered to comments submitted to the Department during the public comment period regarding the draft major modification to the NJPDES/DGW permit. The comments have been provided, followed by the Department's responses.

COMMENTS FROM LENOX CHINA

COMMENT:

I. Fact Sheet

1. The name of the applicant should be changed to "Lenox China, a Division of Lenox, Incorporated".

2. The name of the Facility where the discharge occurs should be changed to "Lenox China".

3. The last sentence of the Description of Facility should be changed to read:

   Associated process wastes include clay solution waste (slip) and glaze waste (fritted lead compounds).

4. The first sentence of the Description of Discharge should be changed to read as follows:

   "The facility has two hazardous waste lagoons, one used for the storage of clay waste (slip basin) and one used for the storage of glaze waste (glaze basin)."

   The next to last sentence under the first paragraph of Description of Discharge should be changed to read:

   "Use of this unit was discontinued in August 1987 when Lenox began using their modified waste treatment and former sanitary plant facilities to handle process waste water."

   Add the following sentence at the end of the second paragraph of the Description of Discharge:

   "Except for possible soil residues, the wastes have been completely removed."

RESPONSE:

The Department has made the requested changes, with the exception of number 3., the last sentence under Description of Facility and number 4 under Description of Discharge, the end of the second paragraph. The waste solvent (trichloroethylene) sludge is a process waste which is drummed and periodically removed from the Pomona facility for incineration. This is factual information pertaining to waste handling procedures at the facility. Therefore, the Department has left this comment in the Fact Sheet, but has modified the sentence in order to clarify how this waste material is handled. The closure plan states that "visual small fragments of glaze waste remain along the bottom and sidewalls of the glaze basin". The Department has added a sentence at the end of the Description of Discharge section that describes this situation.

COMMENT:

II. Permit

1. The name of the Permittee should be changed to Lenox China, a Division of Lenox, Incorporated.

2. The name of the property owner should be changed to Lenox, Incorporated, 100 Lenox Drive, Lawrenceville, New Jersey 08648.

3. The location of activity should be changed to read:

"Lenox China"

RESPONSE:

The Department has made the requested changes.

COMMENT:

III. <u>Ground Water Monitoring Requirements and Standards</u>

Paragraph 13 sets forth the requirements for ground water monitoring wells. The modification of the NJPDES Permit being proposed specifically is only for the Glaze Basin. Lenox urges that the ground water monitoring requirements and standards be limited to those reasonably necessary for the Glaze Basin. As the Administrator is aware, Lenox maintains monitoring wells with regard to other activity regulated by and under the supervision of the DEP. Lenox feels strongly that the modification of the NJPDES Permit with regard to the Glaze Basin should be limited to the Glaze Basin in order to avoid confusion not only on the part of the DEP but also of the public. It is in this context that comments with regard to Paragraph 13 are submitted.

RESPONSE:

The Department included a modification of Lenox's ground water monitoring requirements for the entire site in the draft closure permit, not just the RCRA monitoring wells. The purpose of this modification was to update the ground water monitoring requirements of the initial NJPDES/DGW permit to include only those parameters that were determined to exceed a state or federal ground standard or parameters which appeared to show an increase in downgradient wells over background. For those parameters that Lenox believes do not show a statistically significant increase over background and/or the ground water protection standard, the Department would be willing to decrease the monitoring frequency or delete those parameters if Lenox can demonstrate to the Department in a written report that any increases are not statistically significant. A statistical test that is approved by the Department must be used for this demonstration. The Department chose to present the monitoring requirements in the simplest format in order to avoid confusion on the facilities part as well as all other interested parties. However, the Department understands Lenox's concern that the TCE contamination might be construed to be associated with the glaze basin. At this time the Department has no reason to believe that this is the case. Accordingly, the ground water monitoring requirements have been rewritten to separate monitoring during closure from site-wide monitoring requirements. The site-wide ground water monitoring requirements of Part III-DGW, Table 2 shall replace the ground water monitoring requirements of Lenox's initial NJPDES/DGW permit.

COMMENT:

1. Based on an analysis of five (5) years of water-level data, the only water quality monitoring wells that can be considered either up or downgradient of the Glaze Basin are wells #1, #3, #6, #9, #10. Samples for water quality analyses with regard to the Glaze Basin should be taken only from these five (5) wells.

RESPONSE:

The Department would agree that the five wells listed above are the most pertinent wells in terms of monitoring the glaze basin. These are the RCRA wells for the waste management area, which also includes the RCRA regulated slip basin. In some instances, these wells may be suitably located for monitoring other areas of concern such as the drum storage area and the degreaser sludge sump.

COMMENT:

2. Based on the nature of the Glaze Basin and available monitoring data, there is no reason to require testing of ground water for volatile organic compounds (VOC's). Throughout its use, the Glaze Basin has received only inorganic glaze wastes. The use of organic solvents at the Lenox plant is completely separate from the glaze operations, and monitoring data, especially from well #3, which is directly down gradient of the Glaze Basin, has confirmed that organics have not inadvertently made their way into the basin. Post-closure monitoring requirements for the Glaze Basin (a RCRA Basin) should reflect its use and chemistry. VOC's do not fall into this category and the proposed requirement to analyze for them is unreasonable.

   It is Lenox's understanding that the purpose for requiring analysis of VOC's has no connection with the Glaze Basin but rather is in connection with the presence of trichloroethylene (TCE) in the ground water. Lenox China has submitted seven (7) sets of data for Well #10 and 6 measurements for many of the other wells with regard to its TCE investigation, which is continuing, and the requirement of monitoring for VOC's in this permit action concerning the Glaze Basin will not add anything to that data.

RESPONSE:

The Department agrees with Lenox that based on the currently available data, the glaze basin does not appear to be the source of volatile organic contamination in the ground water. The preceding comment seems to imply that Lenox believes they have completely delineated the extent of this problem; the Department does not concur with this conclusion. Additional ground water monitoring wells will probably have to be installed and sampled before the most appropriate final remedial option can be selected. In the meantime, interim remedial measures may be required to control the spread of ground water contamination.

COMMENT:

3. Notwithstanding Lenox China's position that VOC's should not be part of the monitoring requirements of this modification of its NJPDES Permit, if the DEP decides it will require monitoring for VOC's, the permit action should clarify that the monitoring for VOC's is not a part of the cleanup and will be treated separately in the permit action. Further, if monitoring for VOC's is going to be required, the frequency should not be quarterly but either annually or at the most semi-annually.

RESPONSE:

The Department has modified the final permit to clarify the intent of the proposed change. The volatile organic contamination in the ground water beneath the facility must be addressed by Lenox in more detail than is required by this permit. This is a problem of major concern because of the levels of contamination found in ground water samples during preliminary investigations at the facility and because the plume seems to have moved off site. Ground water contamination by a poorly attenuated substance like trichloroethylene, is likely to move relatively quickly in an aquifer of this type.

COMMENT:

4. Paragraph 13, Table I provides a ground water protection standard of one part per billion of trichloroethylene. Lenox China urges, if sampling for VOC's is required, that the Department reconsider the use of such a restrictive and conservative standard. The one part per billion is the limit that Lenox China understands will be adopted for drinking water. The Department should consider an alternate concentration limit for TCE in ground water that is not as severely restrictive as the standard that applies to water being delivered for human consumption.

RESPONSE:

Ground water in the vicinity of the area in which Lenox's Pomona facility is located is classified by the State of New Jersey as ground water which is an actual or potential source of underground drinking water (GW-2, see N.J.A.C. 7:9-6.5). Therefore, the Department is required to impose a maximum contaminant level (MCL), where one exists for contaminants of concern, in a NJPDES/DGW permit that requires a compliance monitoring program. The ground water protection standards of Part III-DGW, Table 1 of the draft permit (Table 2 of the final permit) are MCL's for the volatile organic compounds of concern, trichloroethylene and its degradation products. The only way in which these could be changed would be if Lenox applied for alternate concentration limits (ACL's) pursuant to N.J.A.C. 7:14A-6.15(e)2 and was granted an ACL after making the demonstration required under 6.15(e)2 and (d)2.

For purposes of closure/post-closure monitoring of the RCRA basins, Lenox should be in a detection monitoring program, but for the site-wide monitoring Lenox is in a compliance monitoring program.

COMMENT:

5. The VOC's listed in Paragraph 13 and in the forms

accompanying Paragraph 13 include:

1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
Bis(chloromethyl)ether
Dichlorodifluoromethane
Trichlorofluoromethane

The first three listed are non-volatile priority pollutants and the second three are non-USEPA volatile priority pollutants. These should be removed from the requirements for monitoring.

RESPONSE:

The first three compounds listed in the preceding comment are semi-volatile organic compounds which can be identified in either the volatile organic or the base/neutral extractable fraction. Currently, these compounds are more commonly analyzed as part of the base/neutral fraction. As these compounds are not (currently) contaminants of concern at this facility, Lenox will not be required to monitor for these compounds. The remaining three compounds are included in N.J.A.C. 7:14A-1 et seq., Appendix B, Table II, but are not on the ground water analysis reporting form for volatile organic compounds. Lenox should report the results of the analysis of all volatile organic compounds on the reporting form (with the exception of 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene) since these compounds are routinely identified during this type of analysis. The volatile organic compounds of concern however, are trichloroethylene and its degradation products.

COMMENT:

6. Many of the inorganic and indicator constituents listed in Paragraph 13 and the forms accompanying it are inappropriate because they do not reflect facility chemistry and, during six (6) years of monitoring, have not been shown to be a problem. If clean closure is achieved, it is presumed that no monitoring would be required at all. If clean closure is not achieved, Lenox petitions for the following analytical list:

Ammonia nitrogen
Color
Lead
Mercury
pH
Sodium
Specific Conductance
Sulfate
Total dissolved solids
Zinc

Exhibit A provides a complete list of chemicals that the proposed action specifies for testing and an explanation for each constituent that Lenox believes

are inappropriate for monitoring the Glaze Basin.

RESPONSE:

The Department agrees that the parameters listed above are the most appropriate ground water monitoring parameters for the glaze basin, but they are not necessarily extensive enough for the site-wide ground water monitoring. Part III-DGW, Table 1 of the permit has been modified to address Lenox's concerns regarding ground water monitoring requirements for the glaze basin . However, one full year of quarterly ground water monitoring is routinely required following the completion of closure at all facilities that attempt to close "clean" in order to confirm that the unit can be clean closed. Part III-DGW, Table 2 contains modifications to Lenox's existing site-wide ground water monitoring requirements. With the exception of the increased frequency in monitoring for volatile organic compounds, this modification does not impose any additional monitoring requirements.

COMMENT:

IV. Special Closure Conditions for the RCRA Lagoon (Glaze Basin) at Lenox China

1. Paragraph C(3) requires procedures to contain possibly contaminated ground water purged from monitoring wells during sampling. Lenox urges that this not be included as a requirement since the minimal amount of water involved will not spread contamination. Lenox does not anticipate conditions that will require containment of purged water and the revised sampling plan will reflect this judgment. Lenox China asks that Paragraph C(3) be deleted from the Special Closure Conditions.

RESPONSE:

In instances where wells are known to be contaminated (for example monitoring well #10), purged ground water shall be contained; since the volume of purged ground water is only estimated to be a minimal amount this requirement should not add appreciably to Lenox's costs. The sampling plan shall be revised to reflect this requirement.

COMMENT:

2. Paragraph E permits the treatment in Lenox's industrial waste water treatment facility of standing liquids and collected rain water and wash water from equipment decontamination. Lenox China requests that the Permit Action permit the handling of such water as set forth in the February 11, 1988 letter from Geraghty and Miller, Inc. to Mr. Kenneth Siet, Chief of the Ground

Water Quality Control Section, a copy of which is attached to these comments.

RESPONSE:

The Department will agree to Lenox's proposal to discharge these liquids to the slip basin, provided Lenox can demonstrate to the Department that these liquids can be classified as non-hazardous. Hazardous wastes as defined in N.J.A.C. 7:26-1 et seq. can not be discharged to the slip basin.

COMMENT:

3. Paragraph M lists CEC units as mg/kg. These probably should be listed as milliequivalents per 100 grams of soil (meq/100 g).

RESPONSE:

The units for CEC are meq/100 g; the units for lead are mg/kg.

COMMENT:

4. Paragraph O requires the submission of a detailed contingency closure/post-closure plan with fifteen (15) days of the receipt of soil sample analyses. Lenox China requests thirty (30) days for the submission of the detailed contingency plan. The additional time would have no adverse impact on the Glaze Basin closure.

RESPONSE:

The Department concurs and has made the necessary changes.

COMMENT:

V. Lenox China is concerned that the proposed modification action does not provide for relief from the monitoring requirements is Lenox China achieves a clean closure or if, after closure, all maximum contamination limits are met. Lenox China requests that the permit action deal with these issues.

RESPONSE:

Part IV-DGW-J, Page 4 of 4, Condition R. addresses this concern. The Department routinely requires one full year of quarterly confirmatory ground water monitoring following the completion of closure activities, in cases where the facility has requested clean closure.

New Jersey Pollutant Discharge Elimination System

The New Jersey Department of Environmental Protection hereby restricts and controls the discharge of pollutants to waters of the State from the subject facility/activity in accordance with applicable laws and regulations. The permittee is responsible for complying with all terms and conditions of this authorization and agrees to said terms and conditions as a requirement for the construction, installation, modification or operation of any facility for the collection, treatment or discharge of any pollutant to waters of the State.

PERMIT NUMBER NJ0005177

Permittee
LENOX CHINA A DIVISION OF
LENOX CHINA INC
TILTON ROAD
POMONA, NJ 08240

Co-Permittee

Property Owner
LENOX INC
100 LENOX DRIVE
LAWRENCEVILLE, NJ 08648

Location of Activity
LENOX CHINA INC
TILTON ROAD
POMONA, NJ 08240

Type of Permit Covered By This Approval	Issuance Date	Effective Date	Expiration Date
I :Infilt/Perc. Lagoon - Ind.	5/23/88	6/23/88	3/14/89

By Authority of:
George G. McCann, P.E.
Director
Division of Water Resources

DEP AUTHORIZATION

(Terms, conditions and provisions attached hereto)

State of New Jersey Department of Environmental Protection Division of Water Resources

FACT SHEET

FOR THE NJPDES PERMIT TO DISCHARGE INTO THE GROUND WATERS OF THE STATE UNDER THE NEW JERSEY WATER POLLUTION CONTROL ACT (N.J.S.A 58:10A-1 et seq.) AND THE NEW JERSEY SOLID WASTE MANAGEMENT ACT (N.J.S.A. 13:1E-1 et seq.) AND THE RULES PROMULGATED PURSUANT THERETO, N.J.A.C. 7:14A-1 et seq. and N.J.A.C. 7:26-1 et seq..

NAME AND ADDRESS OF APPLICANT:

Lenox China, a Division of Lenox, Inc.
Tilton Road
Pomona, New Jersey 08240

EPA IDENTIFICATION NUMBER: NJD002325074

NJPDES NUMBER: NJ0005177

NAME AND ADDRESS OF FACILITY WHERE DISCHARGE OCCURS:

Lenox China
Tilton Road
Pomona, Atlantic County
New Jersey 08240

DESCRIPTION OF PERMIT

This document is equivalent to a RCRA closure approval to implement closure of the RCRA regulated lagoon, known as the glaze basin, and is issued pursuant to the State of New Jersey's approved RCRA program. In addition, the permit contains a modification of the facilities site-wide ground water monitoring requirements.

RECEIVING WATERS

Ground Water of the State. The potential discharge is to the Miocene Age Cohansey Sand and Kirkwood Formation.

DESCRIPTION OF FACILITY:

Lenox China Inc. is located in a rural area on the outskirts of the Town of Pomona. The facility manufactures ceramic dinnerware and giftware. The manufacturing process includes the progressive dewatering of clay solution (slip) to form the shape of the ceramic pieces. The pieces are then kiln fired, coated with a leaded glaze mixture, and then refired. Process wastes include waste solvent sludge, which is drummed and taken off site

for incineration, clay solution waste (slip) and glaze waste (fritted lead compounds).

DESCRIPTION OF DISCHARGE:

The facility has two hazardous waste lagoons, one used for the storage of clay waste (slip basin), and one used for the storage of glaze waste (glaze basin). The slip basin is a rectangular lagoon which measures approximately 110 feet by 200 feet with an average depth of 7.5 feet. Total volume of the lagoon is approximately 6,000 cubic yards. The slip basin received clay wastes (non-hazardous) from 1954 through 1970. From 1970 to 1981, process wastewater containing clay, lead carbonate, frit (low solubility lead compounds in glass form) and silica was discharged to the basin. After 1981, the slip basin received minimal amounts of process wastewater from the manufacturing area and was used for surge capacity for the waste water treatment plant. Use of this unit was discontinued in August 1987 when Lenox began using their modified waste treatment and former sanitary plant facilities to handle process wastewater. The basin holds waste sludge which is hazardous due to its lead concentration.

The glaze basin is a rectangular lagoon approximately 60 feet by 90 feet with an average depth of 6 feet. Total volume of waste deposited in the glaze basin is approximately 1,200 cubic yards. The glaze basin was used as a storage lagoon for the waste glaze material, consisting of clay, lead carbonate, and lead glass. The waste in the glaze basin is also hazardous due to its lead concentration. Use of the glaze basin for disposal was discontinued in 1970 and glaze waste was periodically removed for recycling. Small amounts of waste residues remain along the bottom and sidewalls of the glaze basin, but the majority of the waste material has been removed.

LOCATION OF DISCHARGE

The potential discharge to the ground water of the state is from the two lagoons located at the Pomona plant, lot 1, Block 453, Pomona, Galloway Township, Atlantic County.

PERMIT CONDITIONS

According to the General and Special Conditions of the attached permit.

GROUND WATER MONITORING REQUIREMENTS AND STANDARDS

1. The locations of all the ground water monitor wells required to be sampled or monitored are shown on Figure 1, Part III-DGW, Page 8 of 8.

2. The permittee shall provide the Ground Water Quality Control Section with a minimum of two weeks notification prior to the installation of any ground water monitor wells at the site.

3. The owner or operator shall inspect each ground water monitor well on a weekly basis for structural integrity and/or damage. The permittee shall maintain a complete inspection record indicating dates of inspection, inspector's name, and conditions observed. These records shall be made available to the Department upon request. Failure to maintain or submit records upon request shall be a violation of the conditions of this permit.

4. The permittee is required to take any and all reasonable steps necessary to limit public access to monitoring or recovery wells, treatment systems, or any other potentially harmful or easily damaged equipment on the site by constructing fences, barricades, or any other structures or means necessary to restrict access to the equipment. Said structures must be maintained to restrict access.

5. If the monitor wells are damaged or are otherwise rendered inadequate for their intended purpose, the Administrator, Water Quality Management Element, shall be notified within five (5) days in writing indicating:

   (a) Which wells were damaged or rendered inadequate for their intended use;

   (b) The cause and extent of damage or the reason for the inadequacy;

   (c) If the sampling schedule as required in this permit will be violated or if the results of the sampling may reasonably become misleading;

   (d) The date that the well will again be operational.

   Damaged wells must be replaced or repaired within 60 days after the damage has occurred. If any of the following situations have occurred, redeveloped or replacement wells must be sampled not prior to 14 days after development but no later than 28 days after installation:

Situation 1: Wells have been damaged in a way that affected the quality of previously taken ground water samples.

Situation 2: Due to damage to a well a regularly scheduled sampling event has been missed.

Note: Wells in situation 1 above that do not have to be redeveloped (only purged) must be sampled within five days of the discovery of the damage. If the next regularly scheduled sampling for the well(s) is within 21 days of the last day the well(s) should be sampled under 1 or 2 above, only the regular sampling event is required.

(e) The next date that the well will be sampled;

A replacement well must meet the construction requirements established by the Department. A valid New Jersey well permit is required prior to the installation of the replacement well. Failure to follow these procedures is a violation of this permit and may subject the permittee to the provisions of N.J.S.A. 58:10A-10.

6. As a precaution against cross contamination (in addition to complete decontamination of purging and sampling equipment pursuant to Department requirements), monitoring wells must be sampled in order of least to most contaminated unless dedicated purging and sampling equipment are used for all wells.

7. The permittee shall complete the forms required on the "Monitoring Report - Transmittal Sheet" (Form T-VWX-014) which is included as a part of this permit. Failure to submit sampling data on the forms required on the "Monitoring Report - Transmittal Sheet" shall be considered by the Department to be a violation of the permit sampling requirements and may place the permittee subject to civil and administrative penalties pursuant to N.J.S.A. 58:10A-10. It shall be solely the permittee's responsibility to maintain an adequate supply of the required report forms.

The original copy of the report forms with the proper signatures on the transmittal sheets shall be sent to :

Department of Environmental Protection
Division of Water Resources
Water Quality Management Element
Bureau of Permits Administration
CN-029
Trenton, NJ 08625

ATTN: Monitoring Well Reports

A complete copy of the entire report (including QA/QC Package) shall be sent to:

Ground Water Quality Control Section
Division of Water Resources
Water Quality Management Element
Bureau of Permits Administration
CN-029
Trenton, NJ 08625

ATTN: S. Kinsel

8. Satisfactory ground water wells are defined in Section 6.13 of the NJPDES regulations and shall be subject to Departmental approval. If ground water monitoring wells do not meet these standards, they must be replaced with new wells meeting Departmental standards.

9. A Ground Water Monitor Well Certification (Forms A and B) shall be completed for each existing and proposed ground water monitor well within 30 days of the installation of the ground water monitor wells. Information for each well must be shown on a separate form.

10. For an existing well, if information required on the Ground Water Monitoring Certification (Forms A and B) cannot be determined or the ground water monitoring well is not adequately constructed to meet the requirements of this permit, the Department reserves the right to require the replacement of that well. Criteria to be used by the Department in judging the adequacy of a well will be related to the ability of the well to provide a representative ground water sample from the portion of the aquifer which the Department requires to be sampled. Any replacement well must be installed within a 10 foot radius of the existing well. Inadequate or damaged existing wells must be properly sealed pursuant to N.J.A.C. 58:4A-4.1. Instructions regarding sealing may be obtained by contacting the Water Allocation Office at (609) 984-6831.

11. Attachment 1 (Quality Assurance/Quality Control (QA/QC) Package) shall be completed and submitted for each sampling event. This shall include sections A, B, C, D, and the applicable portions of section E.

12. The permittee must develop and/or update and follow a ground water sampling and analysis plan which is in accordance with Chapter 4 of the U. S. EPA's RCRA Ground Water Monitoring Technical Enforcement Guidance Document (OSWER-9950.1, September, 1986). The plan must include procedures and techniques for sample collection, sample preservation and shipment, analytical procedures and chain of custody control. The plan is to be kept at the facility and be

available for Department review upon request. A copy of this plan must be submitted to the Ground Water Quality Control Section at the address specified in Part III-item 8 of this permit within thirty (30) days of the effective date of the permit.

13. The permittee shall sample a total of 5 ground water monitor wells, including MW-1, -3, -6, -9, -10, according to the schedule in Table 1 below. These wells are the designated RCRA wells for the waste management area. All ground water elevations must be determined prior to evacuation and sampling of the wells. Sampling of the wells shall be performed according to the methodology specified in Section 6.12 of the NJPDES regulations and Chapter 4 of U.S. EPA's RCRA Ground Water Monitoring Technical Enforcement Guidance Document (OSWER-9950.1, September, 1986). A chain of custody record for each sample shall be maintained at the facility and may be requested and/or examined by the Department. The permittee or his/her agent shall evacuate the ground water monitoring wells according to the procedures identified in Section 6.12 of the NJPDES regulations no more than four hours prior to sample collection.

TABLE 1

PARAMETER	GROUND WATER PROTECTION STANDARD		SAMPLING MONTH	SAMPLE TYPE	REPORTING MONTH
Elevation of top of monitor well casing (to be determined once but reported as indicated)			FebMayAugNov	N/A	MarJunSeptDec
Depth to Water Table from top of casing prior to sampling			FebMayAugNov	N/A	MarJunSeptDec
Depth to Water Table from original ground level prior to sampling			FebMayAugNov	N/A	MarJunSeptDec
Ammonia-Nitrogen	0.5	ppm	FebMayAugNov	grab(1)*	MarJunSeptDec
Color	none		FebMayAugNov	grab	MarJunSeptDec
Lead & Compounds	0.05	ppm	FebMayAugNov	grab	MarJunSeptDec
Mercury & Compounds	0.002	ppm	FebMayAugNov	grab	MarJunSeptDec
Nitrate Nitrogen	10.0	ppm	FebMayAugNov	grab	MarJunSeptDec
pH	5-9	SU	FebMayAugNov	grab	MarJunSeptDec

Non organics

Sodium	50	ppm	FebMayAugNov	grab	MarJunSeptDec
Specific Conductance	(umho/cm)		FebMayAugNov	grab	MarJunSeptDec
Sulfate	250	ppm	FebMayAugNov	grab	MarJunSeptDec
Total Dissolved Solids (TDS)	500	ppm	FebMayAugNov	grab	MarJunSeptDec
Zinc & Compounds	5	ppm	FebMayAugNov	grab	MarJunSeptDec

NOTES:

See the notes at the end of Table 2.

14. The permittee shall sample a total of 8 ground water monitor wells, including MW-1,-3, -4, -6, -7, -8, -9, -10, according to the schedule in Table 2 below. For wells where a parameter in Table 2 corresponds to a parameter in Table 1, only one analysis is required for that parameter during a given sampling month. The requirement to sample and analyze for volatile organic compounds only applies to monitoring wells 1, 3, 6, 9, and 10. All volatile organic compounds must be reported, but the Department is only giving maximum contaminant levels (MCL's) for trichloroethylene and its breakdown products at this time. The piezometer (P5) shall be monitored for water level elevations only, according to the schedule given in Table 2. All ground water elevations must be determined prior to evacuation and sampling of the wells. Sampling of the wells shall be performed according to the methodology specified in Section 6.12 of the NJPDES regulations and Chapter 4 of U.S. EPA's RCRA Ground Water Monitoring Technical Enforcement Guidance Document (OSWER-9950.1, September, 1986). A chain of custody record for each sample shall be maintained at the facility and may be requested and/or examined by the Department. The permittee or his/her agent shall evacuate the ground water monitoring wells according to the procedures identified in Section 6.12 of the NJPDES regulations no more than four hours prior to sample collection.

TABLE 2

PARAMETER	GROUND WATER PROTECTION STANDARD	SAMPLING MONTH	SAMPLE TYPE	REPORTING MONTH
Elevation of top of monitor well casing (to be determined once but reported as indicated)		FebMayAugNov	N/A	MarJunSeptDec

Depth to Water Table from top of casing prior to sampling			FebMayAugNov	N/A	MarJunSeptDec
Depth to Water Table from original ground level prior to sampling			FebMayAugNov	N/A	MarJunSeptDec
Ammonia-Nitrogen	0.5	ppm	FebMayAugNov	grab(1)*	MarJunSeptDec
Barium	1.0	ppm	FebMayAugNov	grab	MarJunSeptDec
Chemical Oxygen Demand (COD)		ppm	FebMayAugNov	grab	MarJunSeptDec
Chloride	250	ppm	FebMayAugNov	grab	MarJunSeptDec
Coliform Bacteria	(2)*		FebMayAugNov	grab	MarJunSeptDec
Color	none		FebMayAugNov	grab	MarJunSeptDec
Copper	1.0	ppm	FebMayAugNov	grab	MarJunSeptDec
Cyanide	0.2	ppm	FebMayAugNov	grab	MarJunSeptDec
Iron	0.3	ppm	FebMayAugNov	grab	MarJunSeptDec
Lead & Compounds	0.05	ppm	FebMayAugNov	grab	MarJunSeptDec
Manganese	0.05	ppm	FebMayAugNov	grab	MarJunSeptDec
Mercury & Compounds	0.002	ppm	FebMayAugNov	grab	MarJunSeptDec
Nitrate Nitrogen	10.0	ppm	FebMayAugNov	grab	MarJunSeptDec
Odor	none		FebMayAugNov		MarJunSeptDec
pH	5-9	SU	FebMayAugNov	grab	MarJunSeptDec
Phenols	0.3	ppm	FebMayAugNov	grab	MarJunSeptDec
Selenium & Compounds	0.01	ppm	FebMayAugNov	grab	MarJunSeptDec
Silver & Compounds	0.05	ppm	FebMayAugNov	grab	MarJunSeptDec
Sodium	50	ppm	FebMayAugNov	grab	MarJunSeptDec
Specific Conductance (umho/cm)			FebMayAugNov	grab	MarJunSeptDec
Sulfate	250	ppm	FebMayAugNov	grab	MarJunSeptDec
Total Dissolved Solids (TDS)	500	ppm	FebMayAugNov	grab	MarJunSeptDec

Total Organic Carbon (TOC)		ppm	FebMayAugNov	grab	MarJunSeptDec
Total Volatile Organics: (by GC/MS) (3)*			FebMayAugNov	grab	MarJunSeptDec
trichloroethylene	1	ppb	MCL is 5 ppb		
1,1-Dichloroethylene	2	ppb	MCL is 7 ppb		
cis-1,2-Dichloroethylene	10	ppb			
trans-1,2-Dichloroethylene	10	ppb			
vinyl chloride	5	ppb	MCL 2 ppb		
Zinc & Compounds	5	ppm	FebMayAugNov	grab	MarJunSeptDec

NOTES:

(1)*

"Grab" means an individual sample of at least 100 milliliters collected over a period not exceeding 15 minutes.

(2)*

A. By membrane filtration, not to exceed four per 100 ml in more than one sample when less than 20 are examined per month, or

B. by fermentation tube, with a standard 10 ml portion, not to be present in three or more portions in more than one sample when less than 20 are examined per month, or

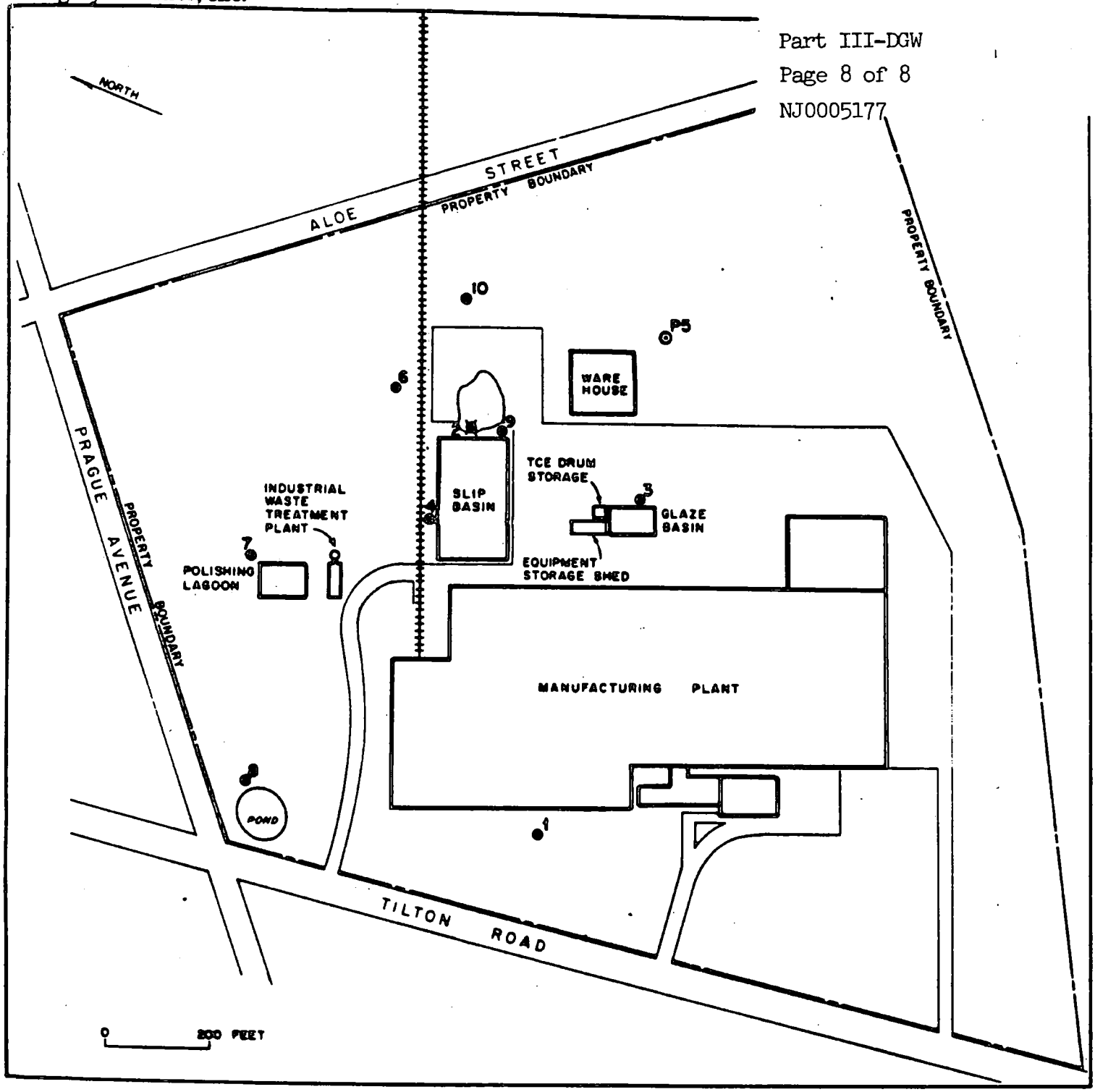
C. prevailing criteria adopted pursuant to the Federal Safe Drinking Water Act (PL 93-523).

(3)*

40 CFR Part 136 Method 624 shall be used to identify and monitor for the volatile organic compounds identified in Appendix B (except Bis(chloromethyl)ether, Dichlorodifluoromethane, and Trichlorofluoromethane) of the NJPDES regulations. The GC/MS method 624 shall be utilized until the concentration of the constituents reach the ground water protection standard. If the method 624 method detection limit is higher than the ground water protection standard, 40 CFR Part 136 Methods 601, 602 and/or 603 shall then be utilized until the mandated ground water protection standards are achieved.

(4)

This note only applies to Table 2. For those parameters that Lenox believes do not show a statistically significant increase over background and/or the ground water protection standard, the Department would be willing to decrease the monitoring frequency or delete those parameters if Lenox can demonstrate to the Department in a written report that any increases are not statistically significant. A statistical test that is approved by the Department must be used for this demonstration.



EXPLANATION

- MONITORING WELL
- PIEZOMETER
- ABANDONED MONITORING WELL
- WASTE TREATMENT/ STORAGE AREAS

FIGURE 1

FACILITY MAP
Lenox China, Pomona, New Jersey

NYJ 002 325 074

JUL 3 REC'D

Let's protect our earth

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
CN 029
Trenton, N.J. 08625-0029

Office of
the Director

(609) 292-1637
Fax # (609) 984-7938

PE90-JUN 2 9 1990

Mr. Stephen F. Lichtenstein
Lenox, Inc.
100 Lenox Drive
Lawrenceville, NJ 08648-2394

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Re: Issuance of Final Permit Renewal of Lenox China NJPDES-DGW Permit No. NJ0070343

Dear Mr. Lichtenstein:

Enclosed is the final NJPDES Discharge to Ground Water Permit Renewal issued in accordance with the New Jersey Pollutant Discharge Elimination System Regulations, N.J.A.C. 7:14A-1 et seq. The purpose of this permit is to implement closure of the RCRA regulated lagoon known as the slip basin, post closure of the RCRA regulated lagoon known as the glaze basin and to regulate the non-hazardous surface impoundments known as the polishing basin and Tilton Road Pond. Violations of any conditions of this permit may subject you to significant penalties.

During the 30 day public comment period which ended May 12, 1990, no comments were submitted to the Department regarding the terms and conditions of this permit.

Within 30 calendar days following your receipt of this permit, under N.J.A.C. 7:14A-8.6, you may submit a request to the Assistant Director for an adjudicatory hearing to reconsider or contest the conditions of this permit. Regulations regarding the format and requirements for requesting an adjudicatory hearing may be found in N.J.A.C. 7:14A-8.9 through 8.13. The request should be sent to:

Assistant Director
Ground Water Quality Management Element
Division of Water Resources
New Jersey Department of Environmental Protection
CN-029
Trenton, New Jersey 08625

Applications for renewal of this permit must be submitted at least 180 days prior to expiration of this permit pursuant to

N.J.A.C. 7:14A-2.1(f)5.

If you have any questions on this action, please contact Daryl Clark at (609) 292-8427.

Sincerely,

Sue Dengler

Sue Dengler, Acting Chief
Bureau of Ground Water
Pollution Abatement

Enclosures
GWQM 378
RCRA(LD)

FACT SHEET

FOR THE NJPDES PERMIT TO DISCHARGE INTO THE GROUND WATERS OF THE STATE UNDER THE NEW JERSEY WATER POLLUTION CONTROL ACT (N.J.S.A 58:10A-1 et seq.) AND THE NEW JERSEY SOLID WASTE MANAGEMENT ACT (N.J.S.A. 13:1E-1 et seq.) AND THE RULES PROMULGATED PURSUANT THERETO, N.J.A.C. 7:14A-1 et seq. and N.J.A.C. 7:26-1 et seq..

NAME AND ADDRESS OF APPLICANT:

Lenox, Inc.
100 Lenox Drive
Lawrenceville, NJ 08648

EPA IDENTIFICATION NUMBER: NJD002325074

NJPDES NUMBER: NJ0070343

NAME AND ADDRESS OF FACILITY WHERE DISCHARGE OCCURS:

Lenox China
Tilton Road
Pomona, Atlantic County
New Jersey 08240

DESCRIPTION OF PERMIT

This document is equivalent to a RCRA closure and partial post closure approval and is written to implement closure of the RCRA- regulated lagoon known as the slip basin and to both modify and finalize the closure of and implement post-closure of the RCRA-regulated glaze basin. Two non-hazardous surface impoundments known as the polishing basin and the Tilton Road Pond will also be regulated. This document is issued pursuant to the State of New Jersey's approved RCRA program.

RECEIVING WATERS

Ground Water of the State. The potential discharge is to the Miocene Age Cohansey Sand and Kirkwood Formation.

DESCRIPTION OF FACILITY:

Lenox China is located in a rural area on the outskirts of the Town of Pomona in southeastern New Jersey. The facility manufactures ceramic dinnerware and giftware. The manufacturing process includes the progressive dewatering of clay solution (slip) to form the shape of the ceramic pieces. The pieces are

then kiln fired, coated with a leaded glaze mixture, and then refired. Process wastes include waste solvent sludge, which is drummed and taken off site for incineration, clay solution waste (slip) and glaze waste (fritted lead compounds).

DESCRIPTION OF DISCHARGE:

The facility has two hazardous waste lagoons, one used for the storage of clay waste (slip basin), and one used for the storage of glaze waste (glaze basin). The slip basin is a rectangular lagoon which measures approximately 110 feet by 200 feet with an average depth of 7.5 feet. Total volume of the lagoon is approximately 7,100 cubic yards. The slip basin received clay wastes (non-hazardous) from 1954 through 1970. From 1970 to 1981, process wastewater containing clay, lead carbonate, frit (low solubility lead compounds in glass form) and silica was discharged to the basin. After 1981, the slip basin received minimal amounts of process wastewater from the manufacturing area and was used for surge capacity for the waste water treatment plant. Use of this unit was discontinued in August 1987 when Lenox began using their modified waste treatment and former sanitary plant facilities to handle process wastewater. The basin holds waste sludge which is hazardous due to its lead concentration.

The glaze basin was a rectangular lagoon approximately 60 feet by 90 feet with an average depth of 6 feet. Total volume of waste that was deposited in the glaze basin was approximately 1,200 cubic yards. The glaze basin was used as a storage lagoon for the waste glaze material, consisting of clay, lead carbonate, and lead glass. The waste stored in the glaze basin was hazardous due to its lead concentration. Use of the glaze basin for disposal was discontinued in 1970 and glaze waste was periodically removed for recycling. Small amounts of waste residues remained along the bottom and sidewalls of the glaze basin prior to initiation of closure, but the majority of the waste material had been removed. Closure of the glaze basin was authorized and implemented under a major modification to the facility's NJPDES/DGW permit which was issued May 18, 1988. The permittee completed all remedial actions for closure in August 1989. The original intent of the major modification was for clean closure by removal of all waste. The permitee has decided to leave residual waste along the north sidewall in place. Therefore, closure conditions for the glaze basin will be modified in this permit.

Two non-hazardous waste lagoons (polishing basin and Tilton Road Pond) are part of the facility waste treatment system and are used for temporary storage of non-hazardous wastewater generated by plant activities. The polishing basin is a rectangular lagoon which measures approximately 60 feet by 90 feet and has an average depth of 6 feet. The estimated capacity of the basin is

110,000 gallons. The polishing basin received wastewater pumped from the slip basin until use of that basin was discontinued in 1987. Recent modification of the waste treatment plant allows non-hazardous wastewater to be transferred directly from a Rex Clarifier (a device for settling solids from liquid) to the polishing basin, where further clarification takes place. The basin is periodically dredged to remove accumulations of solids and sludge.

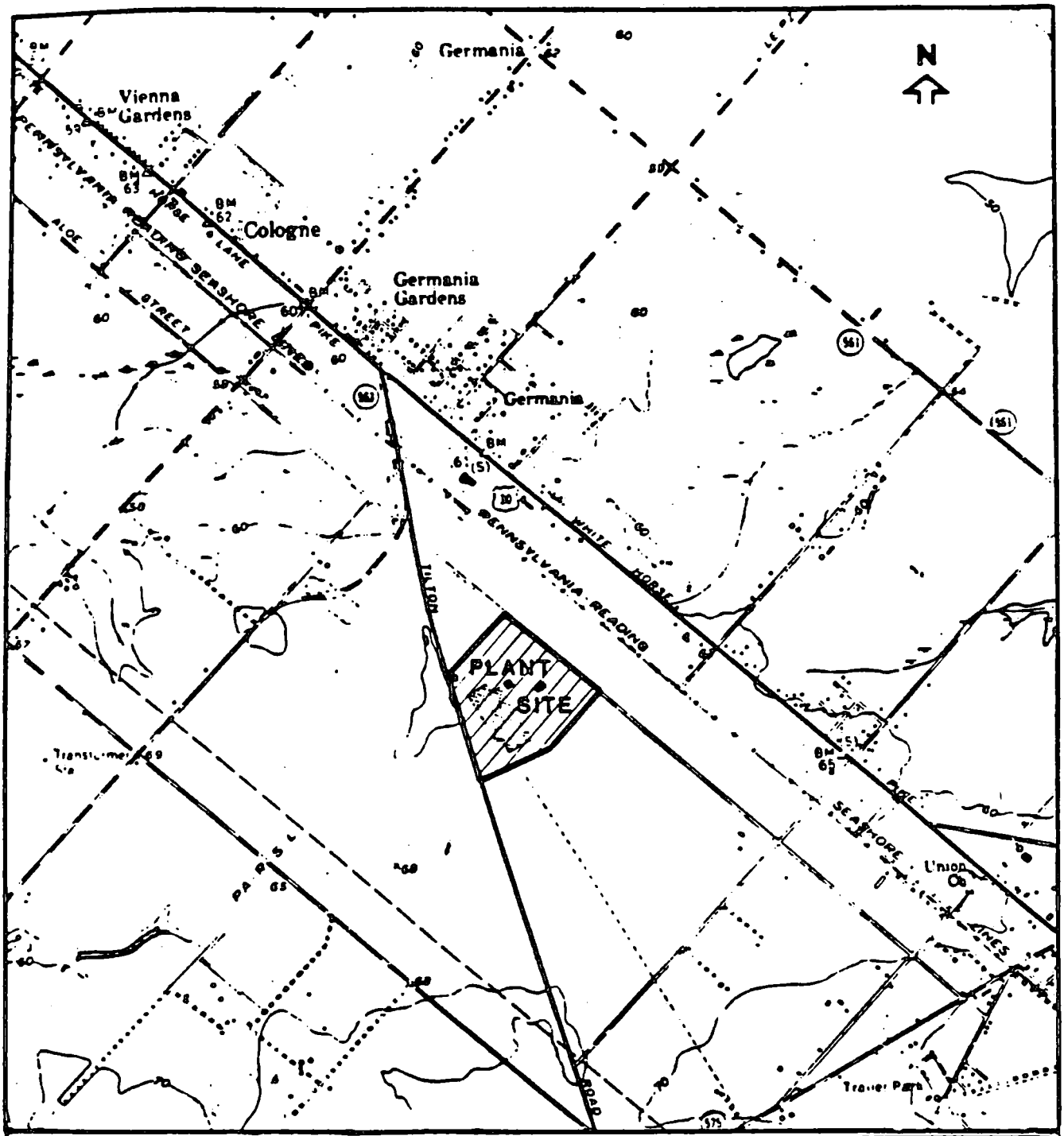
Tilton Road Pond is a temporary storage lagoon that has an estimated capacity of 125,000 gallons. It receives treated waste water from the polishing basin and is monitored for biological and chemical quality. Wastewater from Tilton Pond is released into a culvert which runs under Tilton Road and into a storm water ditch. The ditch discharges the wastewater into the Jack Pudding Branch of Babcock Creek.

LOCATION OF DISCHARGE

The potential discharge to the ground water of the state is from the two active lagoons, the Polishing Basin and Tilton Road Pond located at the Pomona plant, lot 1, Block 453, Pomona, Galloway Township, Atlantic County. The Glaze Basin and Slip Basin, located at the same site, are in the process of being closed to reduce any potential for discharge into the ground waters.

PERMIT CONDITIONS

According to the General and Special Conditions of the attached permit.



LOCATION OF LENOX CHINA INC. PLANT SITE

PREPARED FOR

LENOX CHINA INC.
Pomona, New Jersey

Geraghty & Miller, Inc	DRAWN BY E. WERTH	SCALE 1" = 2000'	FIGURE 1
	CHECKED BY E. WILSON	DATE DEC 1982	
	PROJECT MGR E. WERTH		

620-

PERMIT NUMBER NJ0070343

Permittee	Co-Permittee
LENOX CHINA INC 100 LENOX DRIVE LAWRENCEVILLE NJ 08648	

Property Owner	Location of Activity
LENOX INC 100 LENOX DRIVE LAWRENCEVILLE NJ 08648	LENOX CHINA TILTON ROAD GALLAWAY NJ 08240

Current Authorization Covered By This Approval And Previous Authorization	Issuance Date	Effective Date	Expiration Date
I :INFILT/PERC LAGOON-INDUSTRIAL	07/01/1990	08/01/1990	07/31/1995

By Authority of:
Director's Office
Division of Water Resources

DEP AUTHORIZATION
Arnold Schiffman, P.G. Assistant Director
Ground Water Quality Management

CHECKLIST OF PARTS AND MODULES COMPRISING THIS NJPDES PERMIT

1. Cover Page
2. Checklist
3. Part I (General Conditions for All NJPDES Discharge Permits)
4. Part II - Additional General Conditions for the types of NJPDES Permits checked as follows:

____ Part II - A (Municipal/Sanitary)
____ Part II - B/C (Industrial/Commercial/Thermal)
____ Part II - L (SIU)
____ Part II - IWMF (Industrial Waste Management Facility)
____ Part II - DGW Specify type(s): _____

5. Part III - Effluent Limitations and Monitoring Requirements

____ Part III - A
____ Part III - B/C
____ Part III - L
X Part III - DGW Specify type(s): Ground Water Monitoring Requirements and Standards

6. Part IV - Special Conditions

____ Part IV - A
____ Part IV - B/C
____ Part IV - L
____ Part IV - IWMF
X Part IV - DGW Specify type(s): Revised Closure for Glaze Basin, Post-Closure of Glaze Basin and Closure of Slip Basin

State of New Jersey
Department of Environmental Protection
Division of Water Resources

GENERAL CONDITIONS FOR ALL NJPDES/DGW PERMITS

The New Jersey Pollutant Discharge Elimination System (NJPDES) regulations (N.J.A.C. 7:14A-1 et seq.) as authorized by the New Jersey Water Pollution Control Act (N.J.S.A. 58:10A et seq.) identify requirements for all Discharge to Ground Water Permits. Information concerning these general permit requirements may be found in the following sections of the NJPDES regulations.

Permit Requirement	Citation
General Information	Subchapter 1
General Requirements for the NJPDES Permit	Subchapter 2
Additional Requirements for an Industrial Waste Management Facility	Subchapter 4
Additional Requirements for Underground Injection Control Program	Subchapter 5
Additional Requirements for Discharges to Ground Water (DGW)	Subchapter 6
Procedures for Decision Making	Subchapter 7
Public Comments and Public Notice	Subchapter 8
Filing Requirements for NJPDES Permits	Subchapter 10
Public Access to Information and Requirements for Departmental Determination of Confidentiality	Subchapter 11

GROUND WATER MONITORING REQUIREMENTS AND STANDARDS

1. The locations of all the ground water monitor wells required to be sampled or monitored are shown on Figure 2, Part III-DGW, Page 9 of 9.

2. The permittee shall provide the Bureau of Ground Water Pollution Abatement with a minimum of two weeks notification prior to the installation of any ground water monitor wells at the site.

3. The owner or operator shall inspect each ground water monitor well on a monthly basis for structural integrity and/or damage. The permittee shall maintain a complete inspection record indicating dates of inspection, inspector's name, and conditions observed. These records shall be made available to the Department upon request. Failure to maintain or submit records upon request shall be a violation of the conditions of this permit.

4. The permittee is required to take any and all reasonable steps necessary to limit public access to monitoring or recovery wells, treatment systems, or any other potentially harmful or easily damaged equipment on the site by constructing fences, barricades, or any other structures or means necessary to restrict access to the equipment. Said structures must be maintained to restrict access.

5. On property in which hazardous waste remains after closure, the owner or operator will not use the property in any way which will disturb the integrity of the containment and well monitoring system in accordance with N.J.A.C. 7:26-9.9 (e).

6. If the monitor wells are damaged or are otherwise rendered inadequate for their intended purpose, the Bureau of Ground Water Pollution Abatement shall be notified within five (5) days in writing indicating:

   (a) Which wells were damaged or rendered inadequate for their intended use;

   (b) The cause and extent of damage or the reason for the inadequacy;

   (c) If the sampling schedule as required in this permit will be violated or if the results of the sampling may reasonably become misleading;

   (d) The date that the well will again be operational.

   Damaged wells must be replaced or repaired within 60

days after the damage has occurred. If any of the following situations have occurred, redeveloped or replacement wells must be sampled not prior to 14 days after development but no later than 28 days after installation:

Situation 1: Wells have been damaged in a way that affected the quality of previously taken ground water samples.

Situation 2: Due to damage to a well a regularly scheduled sampling event has been missed.

Note: Wells in situation 1 above that do not have to be redeveloped (only purged) must be sampled within five days of the discovery of the damage. If the next regularly scheduled sampling for the well(s) is within 21 days of the last day the well(s) should be sampled under 1 or 2 above, only the regular sampling event is required.

(e) The next date that the well will be sampled;

A replacement well must meet the construction requirements established by the Department. A valid New Jersey well permit is required prior to the installation of the replacement well. Failure to follow these procedures is a violation of this permit and may subject the permittee to the provisions of N.J.S.A. 58:10A-10.

7. As a precaution against cross contamination (in addition to complete decontamination of purging and sampling equipment pursuant to Department requirements), monitoring wells must be sampled in order of least to most contaminated unless dedicated purging and sampling equipment are used for all wells.

8. The permittee shall complete the forms required on the "Monitoring Report - Transmittal Sheet" (Form T-VWX-014) which is included as a part of this permit. Failure to submit sampling data on the forms required on the "Monitoring Report - Transmittal Sheet" shall be considered by the Department to be a violation of the permit sampling requirements and may place the permittee subject to civil and administrative penalties pursuant to N.J.S.A. 58:10A-10. It shall be solely the permittee's responsibility to maintain an adequate supply of the required report forms.

The original copy of the report forms with the proper signatures on the transmittal sheets shall be sent to :

Bureau of Information Systems
Management Services Element
Division of Water Resources

Department of Environmental Protection
CN-029
Trenton, NJ 08625

ATTN: Monitoring Well Reports

A complete copy of the entire report (including QA/QC Package) shall be sent to:

Bureau of Ground Water Pollution Abatement
Division of Water Resources
Ground Water Quality Management Element
Department of Environmental Protection
CN-029
Trenton, NJ 08625

ATTN: D. Clark

In addition to the reporting forms referenced above, the permittee shall present analytical results in a summarized, tabular form.

9. Satisfactory ground water wells are defined in Section 6.13 of the NJPDES regulations and shall be subject to Departmental approval. If ground water monitoring wells do not meet these standards, they must be replaced with new wells meeting Departmental standards.

10. A Ground Water Monitor Well Certification (Forms A and B) shall be completed for each existing and proposed ground water monitor well within 30 days of the installation of the ground water monitor wells. Information for each well must be shown on a separate form.

11. For an existing well, if information required on the Ground Water Monitoring Certification (Forms A and B) cannot be determined or the ground water monitoring well is not adequately constructed to meet the requirements of this permit, the Department reserves the right to require the replacement of that well. Criteria to be used by the Department in judging the adequacy of a well will be related to the ability of the well to provide a representative ground water sample from the portion of the aquifer which the Department requires to be sampled. Any replacement well must be installed within a 10 foot radius of the existing well. Inadequate or damaged existing wells must be properly sealed pursuant to N.J.A.C. 58:4A-4.1. Instructions regarding sealing may be obtained by contacting the Water Allocation Office at (609) 984-6831.

12. Attachment 1 (Quality Assurance/Quality Control (QA/QC) Package) shall be completed and submitted for each sampling event. This shall include sections A, B, C, D, and the applicable portions of section E.

13. The permittee must follow a Ground Water Sampling and Analysis Plan (GWSAP) which is in accordance with Chapter 4 of the USEPA RCRA Ground Water Monitoring Technical Enforcement Guidance Document (OSWER-9950.1, September, 1986). Upon reviewing the submitted plan, the Department requires the permittee to revise and update this plan. Required changes and other comments regarding the GWSAP will be sent to Lenox under a separate cover. Lenox shall implement the revised ground water sampling and analysis plan upon approval from the Department.

14. The permittee shall sample a total of 5 ground water monitor wells, including upgradient well MW-1 and downgradient wells MW -3, -6, -9, -10 according to the schedule in Table 1 below. These wells are the designated RCRA wells for the glaze basin and the slip basin. All ground water elevations must be determined prior to evacuation and sampling of the wells. Sampling of the wells shall be performed according to the methodology specified in Section 6.12 of the NJPDES regulations and Chapter 4 of U.S. EPA's RCRA Ground Water Monitoring Technical Enforcement Guidance Document (OSWER-9950.1, September, 1986). A chain of custody record for each sample shall be maintained at the facility and may be requested and/or examined by the Department. The permittee or his/her agent shall evacuate the ground water monitoring wells according to the procedures identified in Section 6.12 of the NJPDES regulations no more than four hours prior to sample collection.

TABLE 1

PARAMETER	GROUND WATER PROTECTION STANDARD	SAMPLING MONTH	SAMPLE TYPE	REPORTING MONTH
Elevation of top of monitor well casing (to be determined once but reported as indicated)		FebMayAugNov	N/A	AprJulyOctJan
Elevation of original ground level (to be determined once but reported as indicated)		FebMayAugNov	N/A	AprJulyOctJan
Depth to Water Table from top of casing prior to sampling		FebMayAugNov	N/A	AprJulyOctJan
Depth to Water Table from original ground level prior to sampling		FebMayAugNov	N/A	AprJulyOctJan
Ammonia-Nitrogen	(3)*	FebMayAugNov	grab(1)	*AprJulyOctJan

Color	none	FebMayAugNov	grab	AprJulyOctJan
Lead & Compounds	0.05 ppm	FebMayAugNov	grab	AprJulyOctJan
pH	4-9 SU	FebMayAugNov	grab	AprJulyOctJan
Sodium	(3)*	FebMayAugNov	grab	AprJulyOctJan
Sulfate	(3)*	FebMayAugNov	grab	AprJulyOctJan
Total Dissolved Solids (TDS)	(3)*	FebMayAugNov	grab	AprJulyOctJan
Dissolved Oxygen	- ppm	FebMayAugNov	grab	AprJulyOctJan

NOTES:

See the notes at the end of Table 2.

15. The permittee shall sample a total of 9 ground water monitor wells, including MW-1,-3, -4, -6, -7, -8, -9, -10 and -15 according to the schedule in Table 2 below. Monitoring wells 1, 7, and 8 will be used to monitor the Polishing Basin and Tilton Road Pond. For wells where a parameter in Table 2 corresponds to a parameter in Table 1, only one analysis is required for that parameter during a given sampling month. The requirement to sample and analyze for volatile organic compounds only applies to monitoring wells 1, 3, 6, 9, 10 and 15. Sampling and analysis for total volatile organic compounds will be reported annually, but the Department is only giving ground water protection levels for trichloroethylene and its breakdown products, which will be sampled and analyzed for quarterly. The piezometer (P5) shall be monitored for water level elevations only, according to the schedule given in Table 2. All ground water elevations must be determined prior to evacuation and sampling of the wells. Sampling of the wells shall be performed according to the methodology specified in Section 6.12 of the NJPDES regulations and Chapter 4 of U.S. EPA's RCRA Ground Water Monitoring Technical Enforcement Guidance Document (OSWER-9950.1, September, 1986). A chain of custody record for each sample shall be maintained at the facility and may be requested and/or examined by the Department. The permittee or his/her agent shall evacuate the ground water monitoring wells according to the procedures identified in Section 6.12 of the NJPDES regulations no more than four hours prior to sample collection.

16. The permittee shall perform a statistical analysis of all the parameters listed in Table 2 (Part III-DGW) below except volatile organics for each well. The arithmetic mean and variance of the samples will be calculated and compared to

the initial background values of upgradient well MW-1. The Department may eliminate parameters or reduce monitoring frequency for parameters if the permittee can demonstrate a statistical basis for such action. Comparisons must be performed using a statistical test approved by the Department.

TABLE 2

PARAMETER	GROUND WATER PROTECTION STANDARD	SAMPLING MONTH	SAMPLE TYPE	REPORTING MONTH (4)*
Elevation of top of monitor well casing (to be determined once but reported as indicated)		FebMayAugNov	N/A	AprJulyOctJan
Elevation of original ground level (to be determined once but reported as indicated)		FebMayAugNov	N/A	AprJulyOctJan
Depth to Water Table from top of casing prior to sampling		FebMayAugNov	N/A	AprJulyOctJan
Depth to Water Table from original ground level prior to sampling		FebMayAugNov	N/A	AprJulyOctJan
Ammonia-Nitrogen	(3)*	FebMayAugNov	grab(1)*	AprJulyOctJan
Color	none	FebMayAugNov	grab	AprJulyOctJan
Iron	(3)*	FebMayAugNov	grab	AprJulyOctJan
Lead & Compounds	0.05 ppm	FebMayAugNov	grab	AprJulyOctJan
Manganese	(3)*	FebMayAugNov	grab	AprJulyOctJan
Odor	none	FebMayAugNov		AprJulyOctJan
pH	4-9 SU	FebMayAugNov	grab	AprJulyOctJan
Sodium	(3)*	FebMayAugNov	grab	AprJulyOctJan
Sulfate	(3)*	FebMayAugNov	grab	AprJulyOctJan
Total Dissolved Solids (TDS)	(3)*	FebMayAugNov	grab	AprJulyOctJan
Total Organic Carbon (TOC)	- ppm	FebMayAugNov	grab	AprJulyOctJan
Dissolved Oxygen	- ppm	FebMayAugNov	grab	AprJulyOctJan

Total Volatile Organics (by GC/MS) (2)*		Feb	grab	Apr
Trichloroethylene	1 ppb	FebMayAugNov	grab	AprJulyOctJan
1,1-Dichloroethylene	2 ppb	FebMayAugNov	grab	AprJulyOctJan
cis-1,2-Dichloroethylene	10 ppb	FebMayAugNov	grab	AprJulyOctJan
trans-1,2-Dichloroethylene	10 ppb	FebMayAugNov	grab	AprJulyOctJan
Vinyl chloride	5 ppb	FebMayAugNov	grab	AprJulyOctJan

NOTES:

(1)* "Grab" means an individual sample of at least 100 milliliters collected over a period not exceeding 15 minutes.

(2)* 40 CFR Part 136 Method 624 shall be used to identify and monitor for the volatile organic compounds identified in Appendix B (except Bis(chloromethyl)ether, Dichlorodifluoromethane, and Trichlorofluoromethane) of the NJPDES regulations. The GC/MS method 624 shall be utilized until the concentration of the constituents reach the ground water protection standard. If the method 624 method detection limit is higher than the ground water protection standard, 40 CFR Part 136 Methods 601, 602 and/or 603 shall then be utilized until the mandated ground water protection standards are achieved.

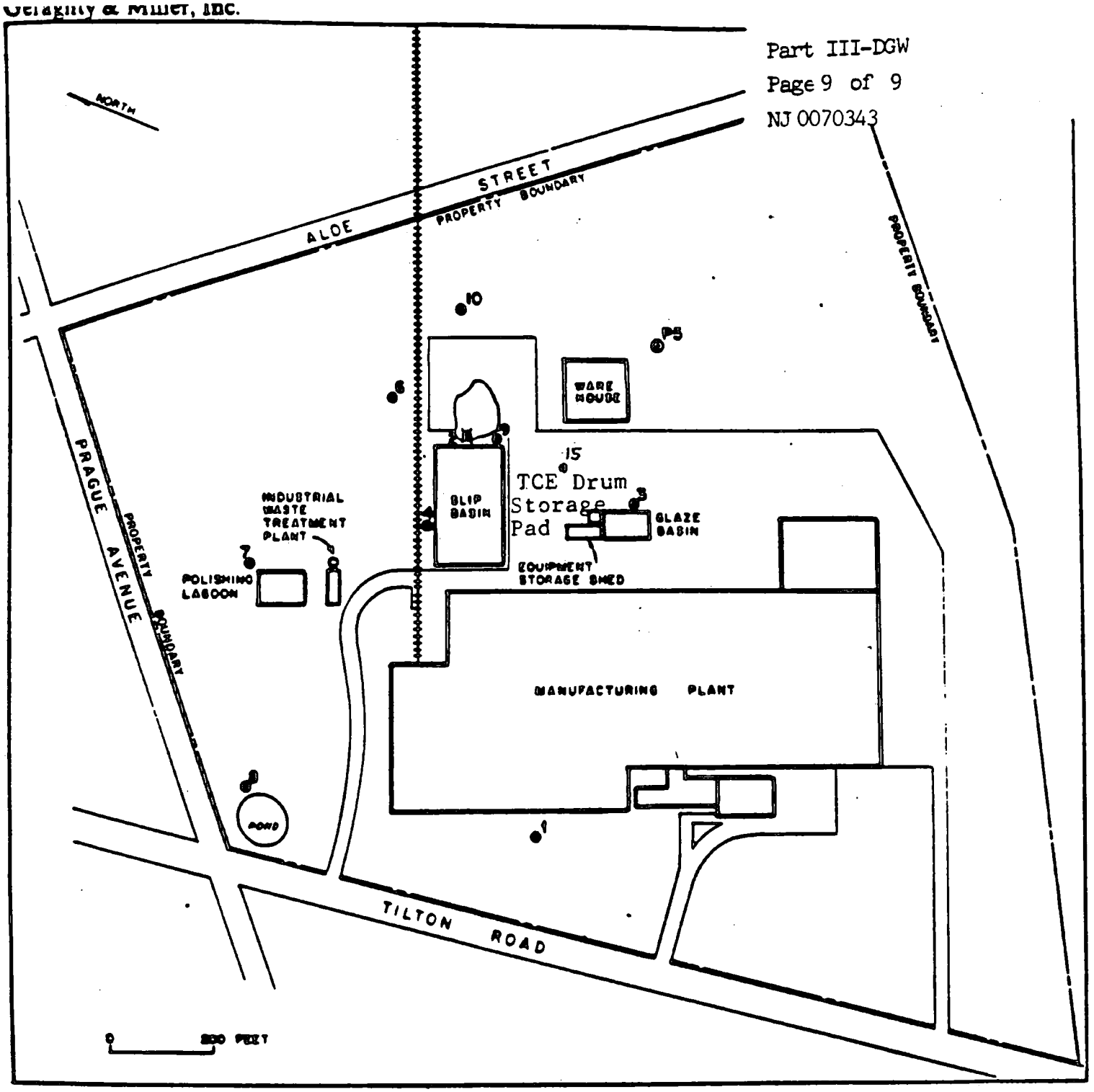
(3)* Limits will be established at a later date based on the requirements of condition 18 below.

(4)* The data required to be reported by Tables 1 and 2 should be submitted in one combined report package for each reporting month.

17. Any exceedences for volatile organic compounds (VOC's) from monitoring wells which presently monitor the TCE plume or plumes shall not be violations of the conditions of this permit while remediation of the plume(s) by Lenox is in progress.

18. With regard to ammonia-nitrogen, iron, manganese, sodium, sulfate and total dissolved solids, exceedences of the GW2 Ground Water Quality Criteria shall not be violations of the conditions of this permit. Within 180 days from the effective date of this permit action, Lenox shall submit to

the Department a report demonstrating that its operations do not discharge iron and manganese into the groundwater or otherwise indirectly cause increased concentrations of these parameters. The report shall also demonstrate that little, if any, environmental impact is being caused by excess levels of iron, manganese and the remaining above listed parameters in Tables 1 and 2. The report may also propose alternative remedies to eliminating and/or reducing the sources or causes of these excess levels. Following submission of the report, the Department will major modify the permit to establish either GW2 Ground Water Criteria or limits higher than the secondary standards.



EXPLANATION

- ● MONITORING WELL
- ● PIEZOMETER
- ⊠ ABANDONED MONITORING WELL
- □ WASTE TREATMENT/ STORAGE AREAS

FIGURE 2

FACILITY MAP

Lenox China, Pomona, New Jersey

Form T-VWX-014
5/83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

Hazardous Waste/NJPDES
Monitoring Wells 1,3,6,
9,10

MONITORING REPORT – TRANSMITTAL SHEET

NJPDES NO. 0 0 1 7 0 3 1 4 3

REPORTING PERIOD MO. YR. _____ THRU MO. YR. _____

PERMITTEE:

Name Lenox China

Address Tilton Road

Pomona, New Jersey 08240

FACILITY:

Name Lenox China

Address Tilton Rd.

Pomona, New Jersey (County) Atlantic

Telephone ( )

FORMS ATTACHED *(Indicate Quantity of Each)*

SLUDGE REPORTS - SANITARY

☐ T-VWX-007 ☐ T-VWX-008 ☐ T-VWX-009

SLUDGE REPORTS - INDUSTRIAL

☐ T-VWX-010A ☐ T-VWX-010B

WASTEWATER REPORTS

☐ T-VWX-011 ☐ T-VWX-012 ☐ T-VWX-013

GROUNDWATER REPORTS

☐ VWX-015(A,B) ☐ VWX-016 ☐ VWX-017

NPDES DISCHARGE MONITORING REPORT

☐ EPA FORM 3320-1

OPERATING EXCEPTIONS

	YES	NO
DYE TESTING	☐	☐
TEMPORARY BYPASSING	☐	☐
DISINFECTION INTERRUPTION	☐	☐
MONITORING MALFUNCTIONS	☐	☐
UNITS OUT OF OPERATION	☐	☐
OTHER	☐	☐

(Detail any "Yes" on reverse side in appropriate space.)

NOTE: The "Hours Attended at Plant" on the reverse of this sheet must also be completed.

AUTHENTICATION - I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

LICENSED OPERATOR

Name *(Printed)* _____

Grade & Registry No. _____

Signature _____

Date _____

PRINCIPAL EXECUTIVE OFFICER or DULY AUTHORIZED REPRESENTATIVE

Name *(Printed)* _____

Title *(Printed)* _____

Signature _____

Date _____

WATER QUALITY MANAGEMENT ELEMEN

GROUND WATER ANALYSIS – MONITORING WELL REPORT

LEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME Lenox China | SW 15 NE

LAE NAME

R | NJPDES NO. NJ 0 0 7 1 0 3 4 3 | WELL PERMIT NO. | SAMPLE DATE YR. | MO. | DAY | NJ LAB CERT. NO. | WQM USE

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM MO. YR. TO MO. YR.

SUBMIT WITH SIGNED T-VW'X-014

SAMPLING MONTHS (Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.)	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
X X X X	Elevation of top of well casing with cap off (as specified in well completion report)	feet: MSL: to nearest .01			
X X X X	Elevation of original ground level (as specified in well completion report)	feet: MSL: to nearest .01			
X X X X	Depth to water table from top of casing prior to sampling with cap off	feet: to nearest .01	8 2 5 4 6		
X X X X	Depth to water table from original ground level prior to sampling	feet: to nearest .01	7 2 0 1 9		
	Arsenic, Dissolved	UG/L as As	0 1 0 0 0		
	Barium, Dissolved	UG/L as Ba	0 1 0 0 5		
	Biochemical Oxygen Demand - 5 Day	MG/L	0 0 3 1 0		
	Cadmium, Dissolved	UG/L as Cd	0 1 0 2 5		
	Chloride, Dissolved	UG/L as Cl	8 2 2 9 5		
	Chromium, Dissolved	UG/L as Cr	0 1 0 3 0		
	Chromium, Dissolved, Hexavalent	UG/L as Cr	0 1 2 2 0		
	Chemical Oxygen Demand (COD), Dissolved	MG/L	0 0 3 4 1		
	Coliform Group	N/100 ML	7 4 0 5 6		
X X X X	Color	Pt - Co	0 0 0 8 0		
	Copper, Dissolved	UG/L as Cu	0 1 0 4 0		
	Cyanide, Total	MG/L as CN	0 0 7 2 0		
	Endrin, Total	UG/L	3 9 3 9 0		
	Fluoride, Dissolved	MG/L as F	0 0 9 5 0		
	Gross Alpha, Dissolved	Pc/L	0 1 5 0 3		
	Gross Beta, Dissolved	Pc/L	0 3 5 0 3		
	Hardness, Total as $CaCO_3$	MG/L	0 0 9 0 0		
	Iron, Dissolved	UG/L as Fe	0 1 0 4 5		
X X X X	Lead, Dissolved	UG/L as Pb	0 1 0 4 9		
	Lindane, Total	UG/L	3 9 7 8 2		
	Manganese, Dissolved	UG/L	0 1 0 5 6		
	Mercury, Dissolved	UG/L	7 1 8 9 0		

39 42 45 48 | 53 54 46 47 59 60 72 73 | 80 83 86 99

VALUE CODING RULES AND REMARK CODES ON REVERSE

Form VWX-015 B
4/83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Lenox China | SW ID NO.

LAB NAME

S | NJPDES NO. NJ 0 0 7 0 3 4 3 | WELL PERMIT NO. | SAMPLE DATE YR. MO. DAY | NJ LAB CERT. NO. | WQM USE

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM MO. YR. TO MO. YR.

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS (Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.)	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
	Methoxychlor, Total	UG/L	39460		
	Methylene Blue Active Substances	MG/L	38260		
X X X X	Nitrogen, Ammonia, Dissolved NH_3 + NH_4 as N	MG/L as N	00608		
	Nitrogen, Nitrate, Dissolved	MG/L as N	00618		
	Odor	T.O.N.	00085		
X X X X	pH	Standard Units	00400		
	Phenols, Total Recoverable	UG/L	32730		
	Radium 226, Dissolved	Pc/L	09503		
	Radium 228, Dissolved	Pc/L	81366		
	Selenium, Dissolved	UG/L	01145		
	Silver, Dissolved	UG/L	01075		
X X X X	Sodium, Dissolved	MG/L	00930		
X X X X	Sulfate, Dissolved (as SO_4)	MG/L	00946		
X X X X	Total Dissolved Solids (TDS)	PPM	70300		
	Total Organic Carbon (TOC)	PPM	00680		
	Total Organic Halogen (TOX)	UG/L	70353		
	Toxaphene	UG/L	39400		
	Turbidity	NTU	00076		
	Zinc, Dissolved	UG/L	01090		
	2, 4–D, Total	UG/L	39370		
	2, 4, 5–TP, Total	UG/L	39045		
X X X X	Oxygen Dissolved				

VALUE CODING RULES AND

39 42 65 68 | 33 34 45 47 49 50 72 73 | 60 61 83 84 86 87 98 80

Form T-VWX-014
5/83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

NJPDES Only Monitoring Wells 1, 3, 4, 5(p), 6, 7, 8, 9, 10,15

MONITORING REPORT — TRANSMITTAL SHEET

NJPDES NO.	REPORTING PERIOD MO. YR.		THRU	MO. YR.
0101 7 0131413				

PERMITTEE: Name Lenox China

Address Tilton Rd.

Pomona, New Jersey 08240

FACILITY: Name Lenox China

Address Tilton Rd.

Pomona, New Jersey (County) Atlantic

Telephone ( )

FORMS ATTACHED *(Indicate Quantity of Each)*

SLUDGE REPORTS - SANITARY

☐ T-VWX-007 ☐ T-VWX-008 ☐ T-VWX-009

SLUDGE REPORTS - INDUSTRIAL

☐ T-VWX-010A ☐ T-VWX-010B

WASTEWATER REPORTS

☐ T-VWX-011 ☐ T-VWX-012 ☐ T-VWX-013

GROUNDWATER REPORTS

18 VWX-015(A,B) 9 VWX-016 ☐ VWX-017

NPDES DISCHARGE MONITORING REPORT

X EPA FORM 3320-1

OPERATING EXCEPTIONS

	YES	NO
DYE TESTING	☐	☐
TEMPORARY BYPASSING	☐	☐
DISINFECTION INTERRUPTION	☐	☐
MONITORING MALFUNCTIONS	☐	☐
UNITS OUT OF OPERATION	☐	☐
OTHER	☐	☐

(Detail any "Yes" on reverse side in appropriate space.)

NOTE: The "Hours Attended at Plant" on the reverse of this sheet must also be completed.

AUTHENTICATION - I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

LICENSED OPERATOR

Name *(Printed)* _____

Grade & Registry No. _____

Signature _____

Date _____

PRINCIPAL EXECUTIVE OFFICER or DULY AUTHORIZED REPRESENTATIVE

Name *(Printed)* _____

Title *(Printed)* _____

Signature _____

Date _____

WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALL POINT PEN

FACILITY NAME: Lenox China | SWID NO.:

LAB NAME:

R (1) | NJPDES NO. NJ 0 0 7 d 3 4 3 (2–8) | WELL PERMIT NO. (9–36) | SAMPLE DATE YR. | MO. | DAY (37–32) | NJ LAB CERT. NO. (33–37) | WQM USE

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM MO. YR. TO MO. YR.

SUBMIT WITH SIGNED T-VR-X-014

SAMPLING MONTHS (Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.)	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
X X X X	Elevation of top of well casing with cap off (as specified in well completion report)	feet MSL: to nearest .01			
X X X X	Elevation of original ground level (as specified in well completion report)	feet MSL: to nearest .01			
X X X X	Depth to water table from top of casing prior to sampling with cap off	feet: to nearest .01	8 2 5 4 6		
X X X X	Depth to water table from original ground level prior to sampling	feet: to nearest .01	7 2 0 1 9		
	Arsenic, Dissolved	UG/L as As	0 1 0 0 0		
	Barium, Dissolved	UG/L as Ba	0 1 0 0 5		
	Biochemical Oxygen Demand - 5 Day	MG/L	0 0 3 1 0		
	Cadmium, Dissolved	UG/L as Cd	0 1 0 2 5		
	Chloride, Dissolved	UG/L as Cl	8 2 2 8 5		
	Chromium, Dissolved	UG/L as Cr	0 1 0 3 0		
	Chromium, Dissolved, Hexavalent	UG/L as Cr	0 1 2 2 0		
	Chemical Oxygen Demand (COD), Dissolved	MG/L	0 0 3 4 1		
	Coliform Group	N/100 ML	7 4 0 5 6		
X X X X	Color	Pt - Co	0 0 0 8 0		
	Copper, Dissolved	UG/L as Cu	0 1 0 4 0		
	Cyanide, Total	MG/L as CN	0 0 7 2 0		
	Endrin, Total	UG/L	3 9 3 9 0		
	Fluoride, Dissolved	MG/L as F	0 0 9 5 0		
	Gross Alpha, Dissolved	Pc/L	0 1 6 0 3		
	Gross Beta, Dissolved	Pc/L	0 3 5 0 3		
	Hardness, Total as $CaCO_3$	MG/L	0 0 9 0 0		
X X X X	Iron, Dissolved	UG/L as Fe	0 1 0 4 6		
X X X X	Lead, Dissolved	UG/L as Pb	0 1 0 4 9		
	Lindane, Total	UG/L	3 9 7 8 2		
X X X X	Manganese, Dissolved	UG/L	0 1 0 5 6		
	Mercury, Dissolved	UG/L	7 1 8 9 0		

39 42 65 66 | 33 34 46 47 60 60 72 73 | 40 53 66 70

VALUE CODING RULES AND REMARK CODES ON REVERSE

Form VWX-015 B
4/83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Lenox China | SW ID NO.

LAB NAME

S | NJPDES NO. NJ 0 0 1 7 0 3 4 3 | WELL PERMIT NO. | SAMPLE DATE YR. MO. DAY | NJ LAB CERT. NO. | WQM USE

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM MO. YR. TO MO. YR.

SUBMIT WITH SIGNED T-VWX-014

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
												Methoxychlor, Total	UG/L	39450		
												Methylene Blue Active Substances	MG/L	38260		
	X			X			X			X		Nitrogen, Ammonia, Dissolved NH_3 + NH_4 as N	MG/L as N	00608		
												Nitrogen, Nitrate, Dissolved	MG/L as N	00618		
	X			X			X			X		Odor	T.O.N.	00085		
	X			X			X			X		pH	Standard Units	00400		
												Phenols, Total Recoverable	UG/L	32730		
												Radium 226, Dissolved	Pc/L	09503		
												Radium 228, Dissolved	Pc/L	81366		
												Selenium, Dissolved	UG/L	01145		
												Silver, Dissolved	UG/L	01075		
	X			X			X			X		Sodium, Dissolved	MG/L	00930		
	X			X			X			X		Sulfate, Dissolved (as SO_4)	MG/L	00946		
	X			X			X			X		Total Dissolved Solids (TDS)	PPM	70300		
	X			X			X			X		Total Organic Carbon (TOC)	PPM	00680		
												Total Organic Halogen (TOX)	UG/L	70353		
												Toxaphene	UG/L	39400		
												Turbidity	NTU	00076		
												Zinc, Dissolved	UG/L	01090		
												2, 4-D, Total	UG/L	39370		
												2, 4, 5-TP, Total	UG/L	39045		
	X			X			X			X		Oxygen Dissolved				

VALUE CODING RULES AND

Form VWX-016
4/83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – VOLATILE ORGANICS REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME Lenox China

SW ID NO.

LAB NAME

T (1)

NJPDES NO. NJ 0070343 (2–8)

WELL PERMIT NO. (9–16)

SAMPLE DATE YR. MO. DAY (17–22)

NJ LAB CERT. NO. (23–27)

WQM USE (28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM MO. YR. TO MO. YR.

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
	X											Acrylonitrile	UG/L	34215		
	X											Benzene	UG/L	34030		
	X											Bromoform	UG/L	32104		
	X											Carbon Tetrachloride	UG/L	32102		
	X											Chlorobenzene	UG/L	34301		
	X											Chlorodibromoethane	UG/L	34306		
	X											Chloroform	UG/L	32106		
	X											1, 1 - Dichloroethane	UG/L	34496		
	X											1, 2 - Dichloroethane	UG/L	34531		
	X			X			X			X		1, 1 - Dichloroethylene	UG/L	34501		
	X											1, 2 - Dichloropropane	UG/L	34541		
	X											Ethylbenzene	UG/L	34371		
	X											Methylene Chloride	UG/L	34423		
	X											1, 1, 2, 2 - Tetrachloroethane	UG/L	34516		
	X											Tetrachloroethylene	UG/L	34475		
	X											Toluene	UG/L	34012		
	X											1, 1, 1 - Trichloroethane	UG/L	34506		
	X											1, 1, 2 - Trichloroethane	UG/L	34511		
	X			X			X			X		Trichloroethylene	UG/L	39180		
	X			X			X			X		Vinyl Chloride	UG/L	39175		
	X											Acrolein	UG/L	34210		
	X											Chloroethane	UG/L	34311		
	X											2 - Chloroethylvinyl Ether	UG/L	34576		
	X											Dichlorobromomethane	UG/L	32105		
	X											1, 3 - Dichloropropylene	UG/L	34699		
	X											Methyl Bromide	UG/L	34413		
	X											Methyl Chloride	UG/L	34418		
	X			X			X			X		1, 2 - trans - Dichloroethylene	UG/L	34546		
	X			X			X			X		cis-1,2-Dichloroethylene	UG/L			
												1, 3 Dichlorobenzene	UG/L	34566		
												1, 4 Dichlorobenzene	UG/L	34571		

29 42 55 68 — 33 34 46 47 59 60 72 73 — 40 41 53 54 66 67 79 80

VALUE CODING RULES AND REMARK CODES ON REVERSE

Discharge Monitoring Requirements

1. Samples shall be taken at the discharge points to the surface impoundments known as the Tilton Road Pond and the Polishing Basin.

2. All sampling shall be performed according to the methodology specified in the Department's Field Procedures Manual for Water Data Acquisition.

3. A summary table of all sampling results for the Tilton Road Pond and Polishing basin must be submitted to the Bureau of Ground Water Pollution Abatement at the second address given in condition eight, Part III-DGW, page 2 of 9. This table must be submitted at the same time and frequency as the ground water monitoring reports.

REVISED SPECIAL CONDITIONS FOR CLOSURE OF THE RCRA LAGOON (GLAZE BASIN) AT LENOX CHINA, INC.

The closure plan entitled "Closure Plan- Glaze Basin, Lenox China, Pomona, New Jersey" dated 30 June 1987, which was modified by the "Addendum to Closure Plan for the Glaze Basin" dated November 1987, with its additional requirements and clarifications was previously approved by the Department in the permit modification effective 23 June 1988. All conditions of the closure plan and the addendum to the closure plan are still effective except as indicated in a closure plan revision submitted by Lenox in a letter to the Department dated August 18, 1989. These revisions are approved with the following clarifications and conditions.

A. Since all contaminated subsoil along the north wall could not be feasibly removed, backfilling with suitable clean soil to a depth of 1 foot below former grade level is approved. The requirements for capping (N.J.A.C. 7:26-10.6(h)3) will be satisfied by paving because the small dimensions of the area of contaminated soil that remains allows for compliance with N.J.A.C. 7:26-9.8(b).

B. In accordance with N.J.A.C. 7:26-9.8(l), the permittee has submitted to the Department certification both by the owner and/or operator and by an independent New Jersey licensed Professional Engineer that the facility has been closed in accordance with the specifications of the permit modification that was effective on 23 June 1988, the approved portions of the closure plan and the revised closure plan as approved by this permit renewal. This certification was submitted on May 22, 1990 and received by the Department on May 24, 1990.

C. Following the completion of closure of the glaze basin and the completion of one full year of ground water monitoring as specified in Part III-DGW, Table 1 after closure has been completed, the permittee may petition the Department for a reduction in the ground water monitoring requirements for the glaze basin. This petition may be approved by the Department in writing without major modification of the permit if, for the wells in the petition, the Ground Water Quality Criteria or approved permit limits for ground water (pursuant to N.J.A.C. 7:9-6.6) are not exceeded by a significant amount (1*) during the three years preceeding the Effective Date of this Permit (EDP) and during the period extending from the EDP before any submitted petition is acted upon by the Department.

(1*) The definition of "significant amount" will be based upon the Limit of Quantification (defined in Principals of Environmental Analysis, Journal of Analytical Chemistry, 55: 2210-2218, 1983) for

parameters of concern, the criteria set forth in N.J.A.C. 7:14A-6.15 (d)2:(1-9) and 2ii(1-10), and the best professional judgement of the Department.

SPECIAL CONDITIONS FOR POST-CLOSURE OF THE RCRA LAGOON (GLAZE BASIN) AT LENOX CHINA, INC.

Post-closure care of the glaze basin will be considered to be approved by the Department upon compliance with condition A below. The permittee shall implement the approved post-closure plan entitled "Postclosure Plan - Glaze Basin, Lenox China, Pomona, New Jersey" dated October 1988, with the following clarifications.

A. Final approval of the post-closure plan is contingent upon completion of the closure requirements in accordance with the Revised Special Conditions for Closure of the RCRA Lagoon (Glaze Basin) at Lenox China, Inc. as outlined in Part IV-DGW, page 1 of this permit. All post-closure activities shall follow the guidelines of the approved post-closure plan submitted by Lenox to the Department.

B. In accordance with N.J.A.C. 7:26-9.9(m), Lenox submitted a survey plat to the Department and local zoning authority that details the location and size of the closed area with respect to permanent, surveyed benchmarks. The plat was prepared and certified by a professional land surveyor. This survey plat was recieved by the Department on May 24, 1990.

C. In accordance with N.J.A.C. 7:26-9.9 (e), the permittee will not use the portion of the closed glaze basin along the north wall where hazardous waste and residual contaminated subsoil remains in any way which will disturb the integrity and function of the cap and well monitoring systems.

D. Lenox shall regularly maintain and inspect the paved cap to insure the structural integrity and make repairs as needed. Inspection of the cap and the well system will be conducted on a monthly basis. The inspection reports will summarize the following information:

   1. The condition of the final cap.

   2. The condition of all ground water monitoring equipment.

   3. Any maintenance required during the post-closure period in order to comply with post-closure monitoring.

E. Ground water sampling, analysis and reporting will follow all applicable guidelines and requirements of Part III-DGW section of this permit entitled Ground Water Monitoring Requirements and Standards.

F. Post-closure maintenance and well monitoring shall continue for 30 years after closure. The time period for post-closure care may be shortened or extended by the Department in accordance with N.J.A.C. 7:26-9.9(c).

SPECIAL CONDITIONS FOR CLOSURE OF THE RCRA-REGULATED LAGOON (SLIP BASIN) LENOX CHINA, INC.

The closure plan, entitled "Revised Closure Plan- Slip Basin, Lenox China, Pomona, New Jersey", dated September 1989 and modified by an addendum to the slip basin closure plan dated October 12, 1989 and October 19, 1989, with the additional changes and clarifications, has been submitted to the Department following modification of their previous plan entitled "Closure Plan-Slip Basin, Lenox China, Pomona, New Jersey" dated November 1987. The revised closure plan and the additional revisions are approved with the following conditions.

A. Lenox shall complete all closure activities within the time frame outlined in the closure plan. All closure activity must be completed within 180 days of the effective date of this permit in accordance with N.J.A.C. 7:26-9.8(j).

B. The cap design shall include the addition of a soil or clay layer between the stabilized waste and the HDPE liner system. This layer should be a minimum of six inches thick in order to comply with capping requirements (N.J.A.C. 7:26-10.6(h)3).

C. For the final cover, Lenox shall use soil and seed mixtures that will ensure year round growth of appropriate vegetation for local environmental conditions. Lenox must confirm their choice of vegetation and soil preparation methods with the local Soil Conservation District prior to seeding.

D. Lenox shall conduct monthly inspections to insure cap integrity, soil erosion control and the growth and maintenance of proper vegetation. A report of monthly inspections will be kept at the facility and will be made available to the Department on demand. Any repairs performed on the cap and final cover shall be reported to the Department.

NJS 002 325 074

JAN 15 RECD

1C

State of New Jersey
Department of Environmental Protection and Energy
Division of Publicly Funded Site Remediation
CN 413
Trenton, NJ 08625-0413
Tel. # 609-984-4902
Fax. # 609-633-2360

Scott A. Weiner
Commissioner

Anthony J. Farro
Director

PE91 - AUG 20 1991

Mr. Stephen F. Lichtenstein
Lenox Inc.
100 Lenox Drive
Lawrenceville, NJ 08648-2394

Re: Preliminary Draft NJPDES-DGW Permit No. NJ0070343 For Lenox China Facility, Pomona, Atlantic County.

Dear Mr. Lichtenstein:

Enclosed is a preliminary draft of the NJPDES-DGW permit for the Lenox China facility in Pomona, Atlantic County. The Bureau of Ground Water Pollution Abatement (BGWPA) has submitted this draft permit for your review prior to public noticing as agreed upon in a previous meeting.

The purpose of this draft permit is to implement a RCRA Facility Investigation (RFI), post-closure of two surface impoundments known as the glaze basin and the slip basin, corrective action for remediation of trichloroethylene (TCE) in the ground water, regulation of two non-hazardous infiltration-percolation lagoons known as the polishing basin and Tilton Road Pond and to monitor ground water quality at the facility.

The remediation of TCE contamination at the facility (as specified in Part VIII-DGW-I), and ground water monitoring requirements (as specified in Part III-DGW), will be implemented through the issuance of an emergency permit in accordance with N.J.A.C. 7:14A-2.2.

Please provide your comments on this preliminary draft permit within fourteen (14) days of receiving this permit.

If you have any questions regarding this letter, please contact Daryl Clark of my staff at (609) 292-8427.

Sincerely,

Tracy Wagner for Irene Kropp

Irene Kropp, Chief
Bureau of Ground Water
Pollution Abatement

Enclosures
GWQM378

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PUBLIC NOTICE AND STATEMENT OF BASIS OF INTENT TO ISSUE A NJPDES/GROUND WATER MONITORING PERMIT

UNDER THE NEW JERSEY WATER POLLUTION CONTROL ACT AND THE NEW JERSEY SOLID WASTE MANAGEMENT ACT AND THE RULES PROMULGATED PURSUANT THERETO.

PROCESSING OFFICE

New Jersey Department of Environmental Protection and Energy
Division of Publicly Funded Site Remediation
Ground Water Quality Management Element
CN-029
Trenton, New Jersey 08625
(609) 292-8427

NAME AND ADDRESS OF APPLICANT

Lenox Inc.
100 Lenox Drive
Lawrenceville, New Jersey 08648

NAME AND LOCATION OF FACILITY

Lenox China, a division of Lenox Incorporated
Tilton Road
Pomona, New Jersey 08240
Atlantic County

NJPDES NUMBER: NJ0070343
EPA I.D. NUMBER: NJD002325074

DESCRIPTION OF FACILITY

Lenox China, a division of Lenox Incorporated, is located in a rural area on the outskirts of the Town of Pomona in southeastern New Jersey. The facility manufactures ceramic dinnerware and giftware. The manufacturing process includes the progressive dewatering of clay solution (slip) to form the shape of the ceramic pieces. The pieces are then kiln fired, coated with a leaded glaze mixture, and then refired. Process wastes include waste solvent sludge, which is drummed and disposed of off site, clay solution waste (slip) and glaze waste (fritted lead compounds).

DESCRIPTION OF PERMIT

The New Jersey Department of Environmental Protection and Energy (NJDEPE) intends to issue a New Jersey Pollutant Discharge Elimination System/Discharge to Ground Water (NJPDES/DGW) Permit for the purpose of:

- Monitoring ground water quality at the site.
- Regulating operation of the two infiltration/percolation lagoons known as the Polishing Basin and Tilton Road Pond.
- Investigating waste management areas at the facility and determining the nature and extent of contamination caused by any past or current discharges.
- Developing and implementing any necessary interim remedial measures at any time during the investigation.
- Determining and evaluating the nature, source and extent of trichloroethylene (TCE) contamination at the site.
- Developing and implementing the necessary corrective measures to remediate TCE contamination.
- Implementing post-closure of the RCRA regulated surface impoundments known as the slip basin and the glaze basin.

This notice is being given to inform the public that the NJDEPE has prepared a draft NJPDES permit that is in accordance with the provisions of the New Jersey Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and its implementing regulations (N.J.A.C. 7:14A-1 et seq.).

Lenox China is an existing facility and implementation of the NJPDES requirements are the enforcement mechanism by which existing pollutant discharges are brought into conformance and compliance with laws, regulations and standards. The pollution control requirements are those conditions necessary to restrict the discharge of pollutants and protect the public health and the environment.

DESCRIPTION OF DISCHARGE

A documented release of trichloroethylene (TCE) to the ground water has occurred. Investigations conducted by Lenox indicate there are two sources of this contamination. The two suspected sources are an antecedent drum storage pad and degreaser sump. As part of the corrective measures implementation, this permit authorizes a discharge of treated ground water back to the ground via either injection wells or an injection trench.

Twelve (12) Solid Waste Management Units (SWMUs) and two (2) Areas of Concern (AOC), have been identified at the Lenox China facility.

RECEIVING WATERS

The ground waters of the State. The actual and potential discharges are to the Miocene Age Cohansey Sand which is underlain by the Kirkwood Formation.

PUBLIC COMMENT PROCEDURES

The 30 day mandatory public comment period shall begin with the publication of this notice. All interested persons may submit written comments on the draft permit to:

Assistant Director
Ground Water Quality Management Element
New Jersey Department of Environmental Protection and Energy
CN-029
Trenton, New Jersey 08625

All comments shall be submitted within 30 days of the date of this public notice. All persons, including applicants, who believe that any condition of this permit is inappropriate or that the Department's tentative decision to renew this permit as a final agency action is inappropriate, must raise all reasonably ascertainable issues and submit all reasonably available arguments and factual grounds supporting their position, including all supporting material, by the close of the public comment period. All comments submitted by interested persons in response to this notice, within the time limit, will be considered by the NJDEPE with respect to the requirements being applied to this facility. After the close of the public comment period, the Department will make a final decision. The Department will respond to all significant and timely comments when a final decision is made. The owner or operator and each person who has submitted written comments will receive notice of NJDEPE's final decision.

Any interested person may request in writing that NJDEPE hold a public hearing on the draft document. This request shall state the nature of the proposed issues to be raised in the hearing and shall be submitted within 30 days of the date of this public notice to the Assistant Director, Ground Water Quality Management Element, at the address cited above. A public hearing will be conducted whenever the NJDEPE determines that there is a significant degree of public interest in the permit decision. If a public hearing is held, the public comment period in this notice shall automatically be extended to the close of the public hearing.

After the close of the comment period, the NJDEPE will review and consider all comments received, together with a consideration of the requirements of N.J.A.C. 7:26-1 et seq. and N.J.A.C. 7:14A-1 et seq. The NJDEPE will make a final permit decision and, if it is substantially unchanged from the proposed decision, will notify all persons who submitted comments or requested notification. If the final permit decision is substantially changed from the proposed decision, the NJDEPE will issue a public notice of the decision.

All persons are advised that they must raise all reasonably ascertainable issues and submit all reasonably available arguments and factual grounds supporting their position, including all supporting material, by the close of the comment period. In any review of the final permit decision, no issues may be raised that were not submitted to the administrative record unless good cause is shown for the failure to do so.

Copies of this document have been sent to the Mayor, Municipal Clerk, Planning Board, Sewerage Authority, Health Officer, and the Environmental Commission of Galloway Township.

Please bring this notice to the attention of all persons who would be interested in this matter.

ADMINISTRATIVE RECORD

This public notice is based on the administrative record which is on file at the offices of the NJDEPE, Division of Publicly Funded Site Remediation located at 401 East State Street, City of Trenton, Mercer County, New Jersey. The draft permit and all data submitted by the applicant is available as part of the administrative record. The administrative record is available for inspection, by appointment, between 8:30 A.M. and 4:00 P.M., Monday through Friday. Appointments may be scheduled by calling (609) 292-0400.

Arnold Schiffman, Assistant Director
Ground Water Quality Management

FACT SHEET

FOR NJPDES/DISCHARGE TO GROUND WATER PERMIT

NAME AND ADDRESS OF APPLICANT:

Lenox, Inc.
100 Lenox Drive
Lawrenceville, NJ 08648

NAME AND ADDRESS OF FACILITY WHERE DISCHARGE OCCURS:

Lenox China, a division of Lenox Incorporated
Tilton Road
Atlantic County
Pomona, New Jersey 08240

DESCRIPTION OF FACILITY:

Lenox China, a division of Lenox Incorporated, is located in a rural area on the outskirts of the Town of Pomona in southeastern New Jersey. The facility manufactures ceramic dinnerware and giftware. The manufacturing process includes the progressive dewatering of clay solution (slip) to form the shape of the ceramic pieces. The pieces are then kiln fired, coated with a leaded glaze mixture, and then refired. Process wastes include waste solvent sludge, which is drummed and taken off site for incineration, clay solution waste (slip) and glaze waste (fritted lead compounds).

RECEIVING WATERS/HYDROGEOLOGY:

The ground waters of the State. Discharge is to the Miocene Age Cohansey Sand and Kirkwood Formation. The Cohansey Sand consists of irregularly bedded unconsolidated sand and gravel which contain varying percentages of clay and silt. Discontinuous clay layers are also present. Underlaying the Cohansey Sand is the Kirkwood Formation, which is made up of dense, diatomaceous clay units and coarse, unconsolidated sands. Three principal aquifers, known as the Upper Cohansey, Lower Cohansey and Lower Kirkwood, underlie the facility and comprise the Cohansey-Kirkwood Aquifer System. Depth to ground water is shallow across the site, ranging from approximately 3 to 10 feet below the ground surface. Ground water flow direction is generally north-northeast.

DESCRIPTION OF DISCHARGE:

A documented release of trichloroethylene (TCE) to the ground water has occurred at the Lenox China facility and the

contaminated ground water has migrated offsite of Lenox property. Investigations conducted by Lenox indicates the presence of two TCE plumes which originated from two different source areas. The sources of the TCE are believed to be an antecedent degreaser sump and drum storage pad (i.e. both which are no longer in existence). As part of the corrective measures implementation, this permit authorizes a discharge of treated ground water back to the ground via either injection wells or an injection trench.

In addition to the TCE discharge, the potential for additional contamination exists as a result of past and present activities at the Lenox China facility. A total of twelve (12) Solid Waste Management Units (SWMUs) were identified by USEPA as a result of a RCRA Facility Assessment (RFA). The following is a list and description of the SWMUs and Areas of Concern (AOC).

SWMUs Identified at Lenox China Facility

1) Degreaser Sludge Pit
The degreaser pit is located outside of the northeast portion of the manufacturing building. TCE sludge from a degreaser located inside of the building flows through a pipe and is collected in 30 gallon drums at the pit. This area was near the site of a previous sludge degreaser pit. The former degreaser pit is suspected of being the source of one of the TCE plumes at the site.

2) Sludge Disposal Area
Waste sludge containing lead was dredged from the slip basin and placed in an area northeast of the basin. The sludge disposal area is approximately 200 feet by 200 feet. In 1975, this area was paved with asphalt and is now used as a parking area.

3) Waste Pile
During excavation of the glaze basin in 1988, a seam in the west wall of the basin, approximately 15 feet long and 6 to 12 inches thick, containing a white, clayey material was discovered. The material tested high for lead concentration and has the appearance of glaze waste material. Lenox suspects the material may be the remnants of an antecedent basin used to store glaze waste.

4) Polishing Lagoon
A non-hazardous waste lagoon that is part of the facility waste treatment system is used for temporary storage of non-hazardous wastewater generated by plant activities. It is rectangular and measures approximately 60 feet by 90 feet and has an average depth of 6 feet. The estimated capacity of the basin is 110,000 gallons. The polishing basin received

wastewater pumped from the slip basin until use of that basin was discontinued in 1987. Recent modification of the waste treatment plant allows non-hazardous wastewater to be transferred directly from a Rex Clarifier (a device for settling solids from liquid) to the polishing basin, where further clarification takes place. The basin is periodically dredged to remove accumulations of solids and sludge.

5) Tilton Road Pond
This is a non-hazardous temporary storage lagoon that has an estimated capacity of 125,000 gallons. It receives treated wastewater from the polishing basin and is monitored for biological and chemical quality. Wastewater from the Tilton Road Pond is released into a culvert which runs under Tilton Road and into a storm water ditch. The ditch discharges the wastewater into the Jack Pudding Branch of Babcock Creek.

6) Underground Effluent Transfer Pipe
Consists of approximately 200 feet of steel piping that was used to transfer liquid from the glaze basin to the slip basin. Eighty feet of the pipe nearest to the slip basin has been removed.

7) Equalization Sump
Process wastewater from manufacturing areas was directed to this sump prior to treatment. The sump is made of reinforced concrete and its dimensions are approximately 8 feet by 12 feet and 6 feet in depth. It has an estimated capacity of 3,600 gallons. The sump was taken out of service in 1988. It was subsequently used to recycle plaster water. The sump was then cleaned, emptied and removed. The area where the sump was located has been graded and covered with crushed stones.

8) Piping
This includes all piping used in the wastewater treatment facility at Lenox China.

9) Underground Storage Tanks
Lenox states that the storage tanks, located beneath the main manufacturing building, were removed in July 1987.

10) Glaze Basin
This is a RCRA regulated hazardous waste lagoon which was closed in July 1990. This lagoon was used to store waste glaze material consisting of clay, lead carbonate and lead glass. The total volume of waste deposited in the lagoon was approximately 1,200 cubic yards. During closure, most of the waste was removed, but a small amount of residual waste remains along the bottom and the north sidewall.

11) Slip Basin
This RCRA regulated hazardous waste lagoon was closed in September 1990. This lagoon was used to store clay waste

material from 1954 to 1970 and process wastewater consist of clay, lead carbonate, frit (low solubility lead compou in glass form) and silica from 1970 to 1981. From 1981 1987, the lagoon received small amounts of process wastewater and was used for surge capacity for the wastewater treatment plant. The total volume of the lagoon was 7,100 cubic yards. The slip basin was closed by stabilizing the waste material in situ and capping.

12) Drum Storage Area
Consists of an impermeable concrete and asphalt paved area designed to store 30 gallon drums of TCE waste sludge. The storage area drains to a sump pit that is designed to collect spilled material and pump it back into containers. The Drum Storage Area underwent RCRA closure in 1990 and now only stores hazardous waste for less than ninety (90) days. This area is also the site of a previous TCE drum storage area. The previous drum storage area is suspected of being the source of one of the TCE plumes at the Lenox China site.

Areas Of Concern (AOC)

1) Area of Stressed Vegetation
Dead pine trees were discovered in a vegetated area adjacent to the railroad tracks approximately 200 feet north of Lenox's manufacturing plant. Information submitted by Lenox demonstrates that this area is not a SWMU.

2) Area Between Monitoring Well #10 and Aloe Street
This area was not identified in the RFA. Drilling operations at this location revealed the presence of discolored surficial soils. Subsequent investigations conducted by Lenox found that slip waste had been deposited in this area.

Need to be included

DESCRIPTION OF PERMIT

The New Jersey Department of Environmental Protection and Energy (NJDEPE) intends to issue a New Jersey Pollutant Discharge Elimination System/Discharge to Ground Water (NJPDES/DGW) Permit for the purpose of:

- Monitoring ground water quality at the facility.
- Regulating operation of the two infiltration/percolation lagoons known as the polishing basin and Tilton Road Pond.
- Investigating waste management areas at the facility and determining the nature and extent of contamination caused by any past or current discharges.

- Developing and implementing any necessary interim remedial measures at any time during the investigation.

- Determining and evaluating the nature, source and extent of trichloroethylene (TCE) contamination at the site.

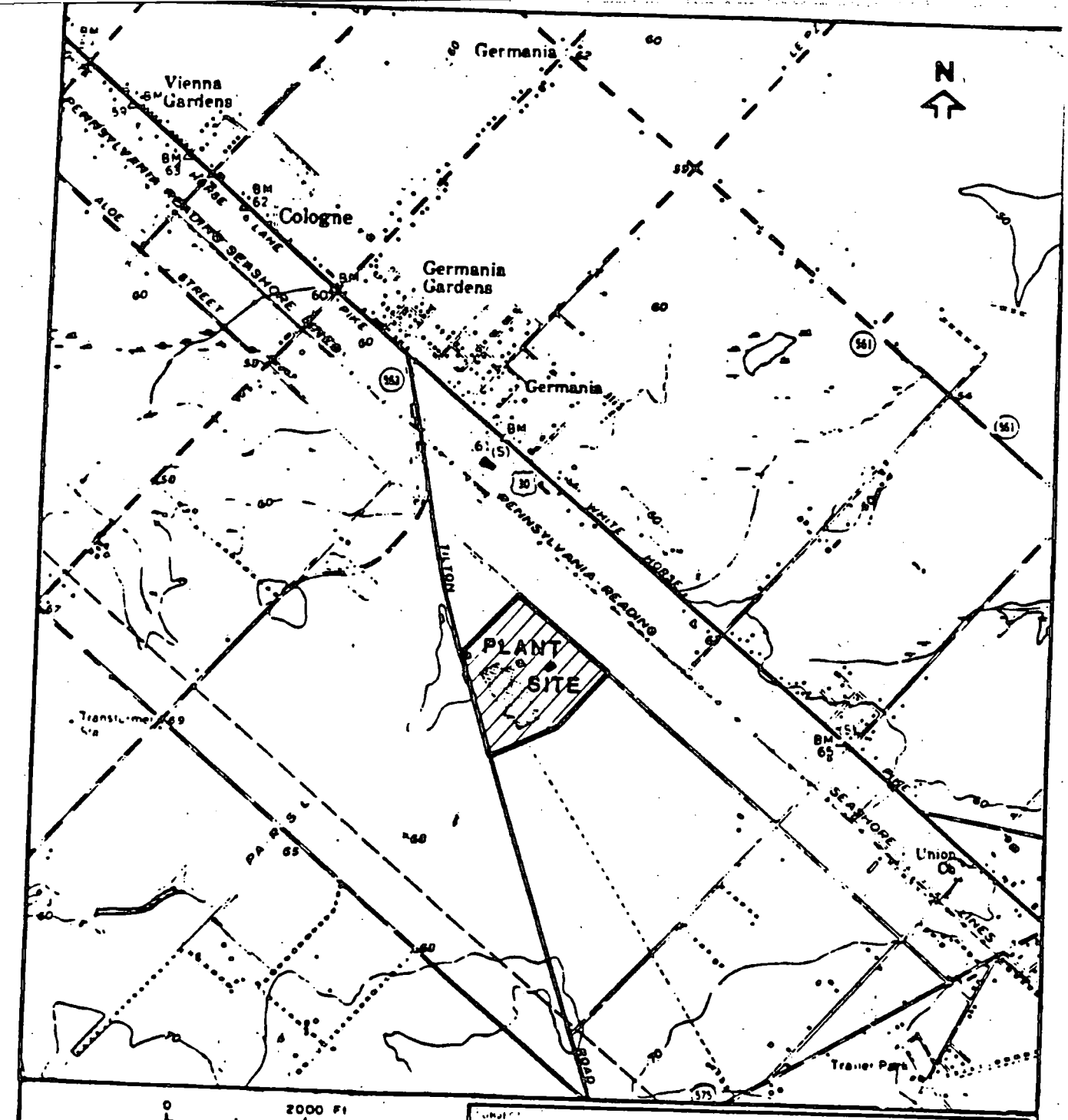
- Developing and implementing the necessary corrective measures to remediate the TCE contamination.

- Implementing post-closure of the RCRA regulated surface impoundments known as the slip basin and the glaze basin.

Lenox China is an existing facility and implementation of the NJPDES requirements are the enforcement mechanism by which existing pollutant discharges are brought into conformance with laws, regulations and standards. The pollution control requirements are those conditions necessary to restrict the discharges of pollutants and protect the public health and the environment.

PERMIT CONDITIONS

The NJPDES-DGW permit has requirements listed in the attached sections regarding General Conditions, Interim Remedial Measures, RCRA Facility Investigation, Detection and Effluent Monitoring Programs, Corrective Measures Study, Corrective Measure Implementation and Post Closure Requirements.



LOCATION OF LENOX CHINA INC. PLANT SITE

LENOX CHINA INC.
Pomona, New Jersey

Geraghty & Miller, Inc.

DRAWN BY: E. WERTH	SCALE: 1" = 2000'	FIGURE 1
CHECKED BY: E. WILSON	DATE: DEC 1982	
PROJECT MGR: E. WERTH		

628-

State of New Jersey
Department of Environmental Protection and Energy
Division of Publicly Funded Site Remediation

GENERAL CONDITIONS FOR ALL NJPDES-DGW PERMITS

The New Jersey Pollutant Discharge Elimination System (NJPDES) regulations (N.J.A.C. 7:14A-1 et seq.) as authorized by the New Jersey Water Pollution Control Act (N.J.S.A. 58:10A et seq.) identify requirements for all Discharge to Ground Water Permits. Information concerning these general permit requirements may be found in the following sections of the NJPDES regulations:

Permit Requirement	Citation
General Information	Subchapter 1
General Requirements for the NJPDES Permit	Subchapter 2
Additional Requirements for an Industrial Waste Management Facility	Subchapter 4
Additional Requirements for Underground Injection Control Program	Subchapter 5
Additional Requirements for Discharges to Ground Water (DGW)	Subchapter 6
Procedures for Decision Making	Subchapter 7
Public Comments and Public Notice	Subchapter 8
Filing Requirements for NJPDES Permits	Subchapter 10
Public Access to Information and Requirements for Departmental Determination of Confidentiality	Subchapter 11

PERMITS and DISPUTE RESOLUTION

A. Within 30 calendar days after the Effective Date of the Permit, the permittee shall apply for all necessary Federal, State, and local permits or permit renewals for existing activities, and where applicable, former activities (i.e. activities that do not already have a current, unexpired permit), in accordance with the requirements of N.J.A.C. 7:14A-1 et seq., N.J.A.C. 7:26-1 et seq., and N.J.A.C. 7:27-8, and other applicable statutes and regulations. Permitted or regulated activities include, but are not limited to, discharge to surface water bodies; discharge to domestic treatment plants; treatment works approvals; discharges to the air; discharges to lagoons, surface impoundments, cesspools, septic systems, landfills; existing hazardous waste underground storage tanks; land application of contaminated materials, and any activities listed in the specific requirements section of the Interim Remedial Measures part of this permit. For NJPDES permits, a renewal application must be submitted at least 180 days prior to the current permit's expiration date.

B. The permittee shall submit complete applications for all Federal, State, and local permits required to carry out the obligations of this Permit. An example of such a permit is a discharge to surface water proposed and approved as part of an interim remedial measure.

C. This Permit shall not relieve the permittee from obtaining and complying with all applicable statutes and regulations while carrying out the obligations imposed by this permit.

D. This Permit shall not preclude the Department from requiring that the permittee apply for any permit or permit modification issued by the Department under the authority of the Water Pollution Control Act, N.J.S.A. 58-10A-1 et seq., the Solid Waste Management Act, N.J.S.A. 13:1E-1 et seq., and/or any other statutory authority for the matters covered herein. The terms and conditions of this Permit shall not be pre-empted by the terms and conditions of any such permit that is more stringent than the terms and conditions of this Permit.

E. The permittee shall use its best efforts to informally and in good faith resolve all disputes or differences of opinion. If however, disputes arise concerning submissions required under this permit, including, but not limited to, implementation of workplans, approval documents, scheduling of any work, selection, performance or completion of any corrective action or any other obligation required under this permit, the permittee shall notify the Bureau of Ground Water Pollution Abatement (BGWPA) immediately of such

disputes and within thirty days of notification submit a written statement to the BGWPA that argues its position. The written argument shall set forth the permittee's specific points of contention; position and reason for its position; and any additional matters that the permittee considers necessary or relevant for the BGWPA's determination. If the dispute cannot be resolved informally within 60 days of receipt of the written argument, the BGWPA will provide the Permittee its decision on the dispute. This decision shall be considered either an existing permit requirement or it shall be incorporated into the permit by either minor or major modification, whichever is appropriate pursuant to N.J.A.C. 7:14A-2.12 and 2.14.

DETECTION AND CORRECTIVE ACTION
GROUND WATER MONITORING REQUIREMENTS AND STANDARDS

1. The locations of existing ground water monitor wells required to be sampled or monitored are shown on Figure 2, Part III-DGW, Page 10 of 10.

2. The permittee shall provide the Bureau of Ground Water Pollution Abatement with a minimum of two weeks notification prior to the installation of any ground water monitor wells at the site.

3. The owner or operator shall inspect each ground water monitor well on a monthly basis for structural integrity and/or damage. The permittee shall maintain a complete inspection record indicating dates of inspection, inspector's name, and conditions observed. These records shall be made available to the Department upon request. Failure to maintain or submit records upon request shall be a violation of the conditions of this permit.

4. The permittee is required to take any and all reasonable steps necessary to limit public access to monitoring or recovery wells, treatment systems, or any other potentially harmful or easily damaged equipment on the site by constructing fences, barricades, or any other structures or means necessary to restrict access to the equipment. These structures must be maintained to restrict access.

5. On property in which hazardous waste remains after closure, the owner or operator will not use the property in any way which will disturb the integrity of the containment and well monitoring system in accordance with N.J.A.C. 7:26-9.9 (e).

6. If the monitor wells are damaged or are otherwise rendered inadequate for their intended purpose, the Bureau of Ground Water Pollution Abatement shall be notified within five (5) days in writing indicating:

   a. Which wells were damaged or rendered inadequate for their intended use.

   b. The cause and extent of damage or the reason for the inadequacy.

   c. If the sampling schedule as required in this permit will be violated or if the results of the sampling may reasonably become misleading.

   d. The date that the well will again be operational. Damaged wells must be replaced or repaired within 60 days after the damage has occurred. If any of the following

situations have occurred, redeveloped or replacement wells must be sampled not prior to 14 days after development but no later than 28 days after installation:

Situation 1: Wells have been damaged in a way that affected the quality of previously taken ground water samples.

Situation 2: Due to damage to a well a regularly scheduled sampling event has been missed.

Note: Wells in situation 1 above that do not have to be redeveloped (only purged) must be sampled within five days of the discovery of the damage. If the next regularly scheduled sampling for the well(s) is within 21 days of the last day the well(s) should be sampled under 1 or 2 above, only the regular sampling event is required.

e. The next date that the well will be sampled;

A replacement well must meet the construction requirements established by the Department. A valid New Jersey well permit is required prior to the installation of the replacement well. Failure to follow these procedures is a violation of this permit and may subject the permittee to the provisions of N.J.S.A. 58:10A-10.

7. Satisfactory ground water wells are defined in Section 6.13 of the NJPDES regulations and shall be subject to Departmental approval. If ground water monitoring wells do not meet these standards, they must be replaced with new wells meeting Departmental standards.

8. A Ground Water Monitor Well Certification (Forms A and B) shall be completed for each existing and proposed ground water monitor well within 30 days of the installation of the ground water monitor wells. Information for each well must be shown on a separate form.

9. For an existing well, if information required on the Ground Water Monitoring Certification (Forms A and B) cannot be determined or the ground water monitoring well is not adequately constructed to meet the requirements of this permit, the Department reserves the right to require the replacement of that well. Criteria to be used by the Department in judging the adequacy of a well will be related to the ability of the well to provide a representative ground water sample from the portion of the aquifer which the Department requires to be sampled. Any replacement well must be installed within a 10 foot radius of the existing well. Inadequate or damaged existing wells must be properly sealed pursuant to N.J.A.C. 58:4A-4.1. Instructions

regarding sealing may be obtained by contacting the Bureau of Water Allocation at (609) 984-6831.

10. As a precaution against cross contamination (in addition to complete decontamination of purging and sampling equipment pursuant to Department requirements), monitoring wells must be sampled in order of least to most contaminated unless dedicated purging and sampling equipment are used for all wells.

11. The permittee shall complete the enclosed reporting forms and also "Monitoring Report - Transmittal Sheet" (Form T-VWX-014) which are included as a part of this permit (Appendix G). Permittee must fill out, sign and submit Form T-VWX-014. The signature on Form T-VWX-014 must be an original each time it is submitted. Failure to submit sampling data on the forms required on the "Monitoring Report - Transmittal Sheet" shall be considered by the Department to be a violation of the permit sampling requirements and may place the permittee subject to civil and administrative penalties pursuant to N.J.S.A. 58:10A-10. It shall the permittee's responsibility to maintain an adequate supply of the required report forms. All monitoring reports shall be sent to :

Department of Environmental Protection and Energy
Wastewater Facilities Regulation Element
CN-029
Trenton, NJ 08625

Attention: Monitoring Well Reports

12. All samples are to be analyzed by a New Jersey Certified Laboratory. The detection limits to be achieved for inorganic parameters and cyanide shall be less than the ground water protection standards. The laboratory must follow the Quality Assurance/Quality Control (QA/QC) procedures of the Division of Publicly Funded Site Remediation (DPFSR) QA/QC package. A list of the analytical methodologies used must be retained by the permittee and submitted upon request of the Department. For each reporting period, the permittee shall submit a copy of the laboratory's analysis report, "Monitoring Report-Transmittal Sheet" (Form T-VWX-014), a list of the monitoring wells and the measured ground water elevations, and a report with the applicable items in N.J.A.C. 7:14A-2.5(a)14 to:

Department of Environmental Protection and Energy
Division of Publicly Funded Site Remediation
Ground Water Quality Management Element

Bureau of Ground Water Pollution Abatement
CN-029
Trenton, NJ 08625

Attention: Daryl Clark

In addition to the reporting forms referenced above, the permittee shall present analytical results in a summarized, tabular form.

13. Appendix I (Quality Assurance/Quality Control (QA/QC) Package) shall be completed and submitted for each sampling event. This shall include sections A, B, C and the applicable portions of section D.

14. The point of compliance for this permit is the vertical surface located at the hydraulically downgradient extent of the facility's waste management areas. The waste management areas are those areas within an imaginary line circumscribing all regulated units and present or past discharge areas. It shall be assumed that the monitoring wells monitor ground water quality at the point of compliance.

15. The ground water protection standards for the constituents listed in the following tables are (1) the Ground Water Quality Standards, and (2) ground water clean up criteria. These ground water standards are based on the NJPDES Regulations, N.J.A.C. 7:14A-1 et seq., the Hazardous Waste Regulations, N.J.A.C. 7:26-8.16 et seq., and the Ground Water Quality Standards, N.J.A.C. 7:9-6 et seq. These ground water protection standards shall not be construed as effluent limitations which are defined under N.J.S.A 58:10A-3f of amendments to the New Jersey Water Pollution Control Act.

16. If a ground water protection standard, as defined above, is exceeded for parameters and wells other than those already included in the corrective action program, the permittee must notify the Assistant Director, Ground Water Quality Management Element, CN-029, Trenton, NJ 08625 in writing by certified mail within seven days of the permittee's receipt of the analytical results.

17. For the Detection Monitoring Program of this permit, within 45 days of the receipt of analytical results that indicate that a ground water protection standard has been exceeded at a compliance point for a second sampling and analysis event, or upon written notification by the Department, the permittee shall submit to the address in Condition 12 for review and approval a compliance monitoring program which, at a minimum, includes the following:

a) additional sampling and data analysis which clearly indicate whether contamination has entered ground water.

b) identification of all sources of discharges to ground water (e.g. leaking underground tank, damaged surface impoundment, failed septic system, etc.) and plans to immediately remediate or eliminate the sources of discharges to ground water as they are revealed in the course of investigation;

c) additional monitoring wells, if necessary, to delineate the horizontal and vertical extent of ground water contamination;

d) applicable portions of N.J.A.C. 7:14A-6.15(j).

e) a reasonable timetable for implementation of the plan.

Upon notification by the Department, or upon receipt by the Department of the compliance monitoring program, the Department will recalculate permit fees based on the criteria set forth in N.J.A.C. 7:14A-1.8.

18. If the Department determines that new information justifies additional requirements to the compliance monitoring plan, or the implementation of a revised corrective action program, as defined in N.J.A.C 7:14A-6.15(k), the Department shall notify the permittee that such a plan is required and will prepare a draft major modification for public notice to include new conditions (cf. N.J.A.C. 7:14A-2.12).

19. The permittee must follow a Ground Water Sampling and Analysis Plan (GWSAP) which is in accordance with Chapter 4 of the USEPA RCRA Ground Water Monitoring Technical Enforcement Guidance Document (OSWER-9950.1, September, 1986). Lenox shall implement the ground water sampling and analysis plan approved by the Department on January 4, 1991.

20. The permittee shall sample a total of 6 ground water monitor wells, including upgradient well MW-1 and downgradient wells MW -3, -4, -6, -9, -10 according to the schedule in Table 1 below. These wells are the designated RCRA wells for the glaze basin and the slip basin. All ground water elevations must be determined prior to evacuation and sampling of the wells. Sampling of the wells shall be performed according to the methodology specified in Section 6.12 of the NJPDES regulations and Chapter 4 of USEPA's RCRA Ground Water Monitoring Technical Enforcement Guidance Document (OSWER-9950.1, September, 1986). A chain of custody record for each sample shall be maintained at the facility and may be requested and/or examined by the Department. The permittee or his/her agent shall evacuate the ground water monitoring wells according to the procedures identified in Section 6.12

of the NJPDES regulations no more than four hours prior to sample collection. These requirements are part of a detection monitoring program.

TABLE 1
Slip and Glaze Basin Detection Monitoring

PARAMETER	GROUND WATER PROTECTION STANDARD	SAMPLING MONTH	SAMPLE TYPE	REPORTING MONTH
Elevation of top of monitor well casing (to be determined once but reported as indicated)		FebMayAugNov	N/A	AprJulyOctJan
Elevation of original ground level (to be determined once but reported as indicated)		FebMayAugNov	N/A	AprJulyOctJan
Depth to Water Table from top of casing prior to sampling		FebMayAugNov	N/A	AprJulyOctJan
Depth to Water Table from original ground level prior to sampling		FebMayAugNov	N/A	AprJulyOctJan
Ammonia-Nitrogen (5)*	- ppm	FebMayAugNov	grab(1)*	AprJulyOctJan
Color	none	FebMayAugNov	grab	AprJulyOctJan
Lead & Compounds	0.05 ppm	FebMayAugNov	grab	AprJulyOctJan
Zinc & Compounds	5 ppm	FebMayAugNov	grab	AprJulyOctJan
pH (3)*	4-9 SU	FebMayAugNov	grab	AprJulyOctJan
Sodium (5)*	- ppm	FebMayAugNov	grab	AprJulyOctJan
Sulfate (5)*	- ppm	FebMayAugNov	grab	AprJulyOctJan
Total Dissolved Solids (TDS) (5)*	- ppm	FebMayAugNov	grab	AprJulyOctJan
Dissolved Oxygen	- ppm	FebMayAugNov	grab	AprJulyOctJan

NOTES:

See the notes at the end of Table 2.

21. The permittee shall sample a total of 9 ground water monitor wells, including MW-1,-3, -4, -6, -7, -8, -9, -10 and -15 according to the schedule in Table 2 below. Monitoring wells 1, 7, and 8 will be used to monitor the Polishing Basin and Tilton Road Pond and are part of a detection monitoring

program. For wells where a parameter in Table 2 corresponds to a parameter in Table 1, only one analysis is required for that parameter during a given sampling month. The requirement to sample and analyze for volatile organic compounds only applies to monitoring wells 1, 3, 6, 9, 10 and 15. Sampling and analysis for total volatile organic compounds will be reported annually, but the Department is only giving ground water protection levels for trichloroethylene and its breakdown products, which will be sampled and analyzed for quarterly; this is part of a corrective action monitoring program. The piezometer (P5) shall be monitored for water level elevations only, according to the schedule given in Table 2. All ground water elevations must be determined prior to evacuation and sampling of the wells. Sampling procedures will follow those outlined in Conditions 19 and 20 above.

22. The permittee shall perform a statistical analysis of all the parameters listed in Table 2 (Part III-DGW) below except volatile organics for each well. The arithmetic mean and variance of the samples will be calculated and compared to the initial background values of upgradient well MW-1. The Department may eliminate parameters or reduce monitoring frequency for parameters if the permittee can demonstrate a statistical basis for such action. Comparisons must be performed using a statistical test approved by the Department or as specified in N.J.A.C 7:14A-6.15(i). The statistical analyses will be performed after each sampling period.

TABLE 2
Sitewide Detection and Corrective Action Monitoring

PARAMETER	GROUND WATER PROTECTION STANDARD	SAMPLING MONTH	SAMPLE TYPE	REPORTING MONTH (4)*
Elevation of top of monitor well casing (to be determined once but reported as indicated)		FebMayAugNov	N/A	AprJulyOctJan
Elevation of original ground level (to be determined once but reported as indicated)		FebMayAugNov	N/A	AprJulyOctJan
Depth to Water Table from top of casing prior to sampling		FebMayAugNov	N/A	AprJulyOctJan
Depth to Water Table from original ground level prior to sampling		FebMayAugNov	N/A	AprJulyOctJan
Ammonia-Nitrogen (5)*	- ppm	FebMayAugNov	grab(1)*	AprJulyOctJan

Color	none	FebMayAugNov	grab	AprJulyOctJan
Iron (5)*	- ppm	FebMayAugNov	grab	AprJulyOctJan
Lead & Compounds	0.05 ppm	FebMayAugNov	grab	AprJulyOctJan
Manganese (5)*	- ppm	FebMayAugNov	grab	AprJulyOctJan
Zinc	5 ppm	FebMayAugNov	grab	AprJulyOctJan
Odor	none	FebMayAugNov		AprJulyOctJan
pH (3)*	4-9 SU	FebMayAugNov	grab	AprJulyOctJan
Sodium (5)*	- ppm	FebMayAugNov	grab	AprJulyOctJan
Sulfate (5)*	- ppm	FebMayAugNov	grab	AprJulyOctJan
Total Dissolved Solids (TDS) (5)*	- ppm	FebMayAugNov	grab	AprJulyOctJan
Total Organic Carbon (TOC)	- ppm	FebMayAugNov	grab	AprJulyOctJan
Dissolved Oxygen	- ppm	FebMayAugNov	grab	AprJulyOctJan
Total Volatile Organics (by GC/MS) (2)*		Feb	grab	Apr
Trichloroethylene	1 ppb	FebMayAugNov	grab	AprJulyOctJan
1,1-Dichloroethylene	2 ppb	FebMayAugNov	grab	AprJulyOctJan
cis-1,2-Dichloroethylene	10 ppb	FebMayAugNov	grab	AprJulyOctJan
trans-1,2-Dichloroethylene	10 ppb	FebMayAugNov	grab	AprJulyOctJan
Vinyl chloride	5 ppb	FebMayAugNov	grab	AprJulyOctJan

NOTES:

(1)* "Grab" means an individual sample of at least 100 milliliters collected over a period not exceeding 15 minutes.

(2)*

A. The method detection limits specified in 40 CFR Part 136- Methods 624 and/or 625 shall be achieved, and the quality assurance and quality control methodologies specified in 40 CFR Part 136 shall be utilized. In the event that a laboratory cannot achieve the required detection limit, the permittee must be able to document why these limits cannot be achieved (i.e. the specific

instrument limitations). Alternate quantitation limits are subject to Departmental approval. Any alternate quantitation limit must be the lowest level that can be reliably achieved within the limits of precision and accuracy specified in 40 CFR Part 136. Documentation of these quality assurance and quality control measures, including the results of field, trip and method blanks, must be submitted within 30 days of a written request from the Department.

B. After the first round of sampling, permittee may propose another analytical methodology for Departmental approval.

C. The standards for these compounds are ground water clean-up criteria. These clean-up criteria must be achieved as described in Part VIII-DGW-I, Corrective Measures Implementation.

(3)* The parameter pH is to be field determined.

(4)* The data required to be reported by Tables 1 and 2 should be submitted in one combined report package for each reporting month.

(5)* Ground water protection standards will not be set for these parameters at this time. Monitoring only is required. For wells 7 and 8, standards could be set in the future following the Department's final decision regarding the report submitted by Lenox entitled "Justification of Alternative Ground-Water Standards for Lenox China". For the RCRA wells listed in Condition 20 above, Lenox must perform the statistical analysis required by Condition 22 above and demonstrate that the concentrations of these parameters are decreasing over the life of this permit.

23. The data required to be reported by Tables 1 and 2 should be submitted in one combined report package for each reporting month.

24. Any exceedences for volatile organic compounds (VOCs) from monitoring wells which presently monitor the TCE plume or plumes shall not be violations of the conditions of this permit while remediation of the plume(s) by Lenox is in progress.

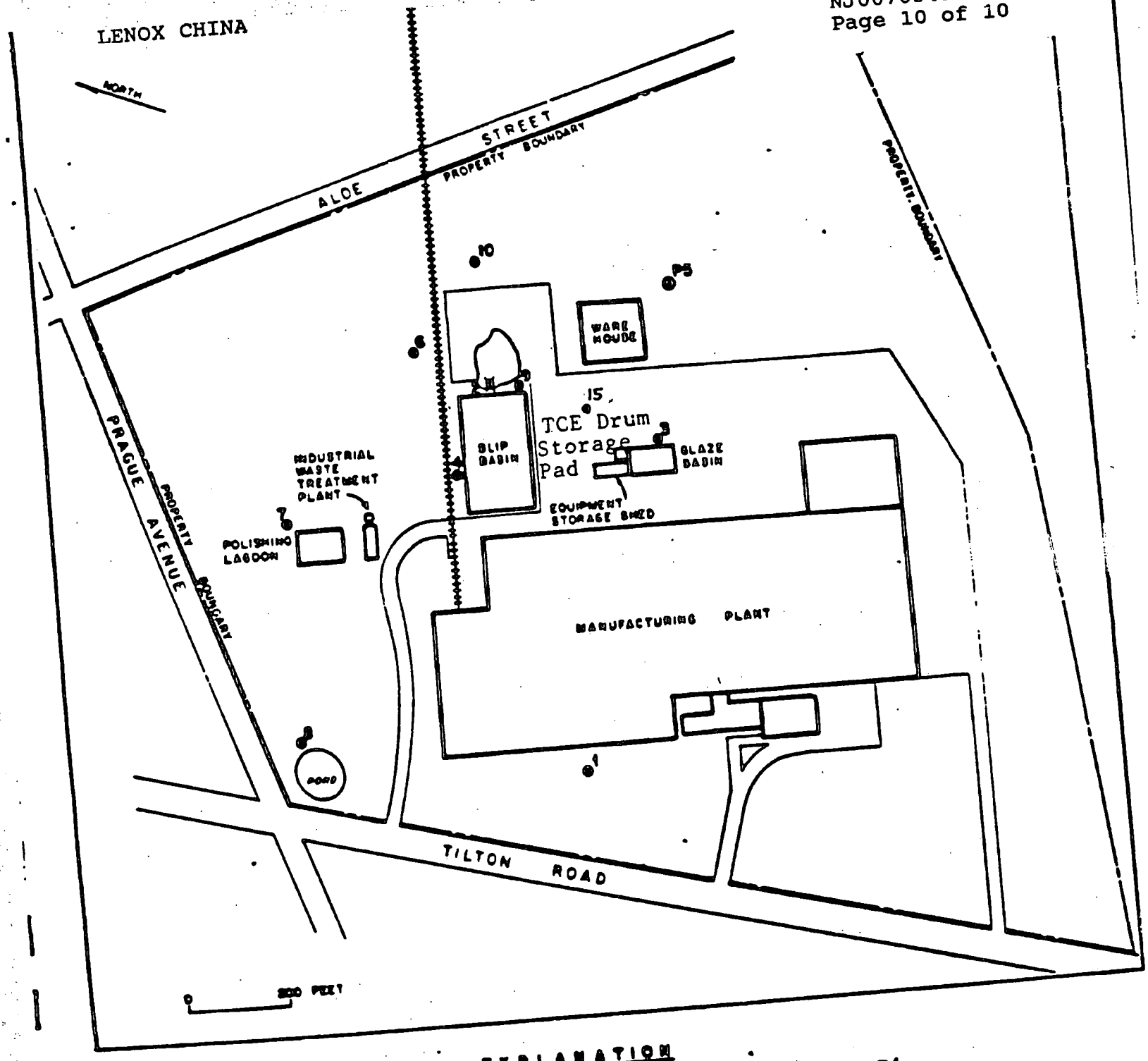


FIGURE 2

FACILITY MAP

Lenox China, Pomona, New Jersey

WASTEWATER EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. Wastewater samples shall be taken from the infiltration/percolation lagoons known as the Polishing Basin and Tilton Road Pond according to the schedule in Table 3 below.

2. All sampling will be performed according to the methodology specified in the Department's Field Procedures Manual for Water Data Acquisition.

3. Effluent Discharge Monitoring Report Forms will be sent from the Department to the Permittee. These forms must be completed for each lagoon and submitted to the address given in Condition Eleven, Part III-DGW, page 3 of 10. A copy of these forms should be sent to the address in Condition Twelve, Part III-DGW, pages 3 and 4 of 10. The form must be submitted at the same time and frequency as the ground water monitoring reports.

TABLE 3

PARAMETER	DISCHARGE LIMITATIONS	SAMPLING MONTH	SAMPLING TYPE	REPORTING MONTH
Temperature, Water	(1)*	FebMayAugNov	grab	AprJulyOctJan
Chemical Oxygen Demand (COD)	(1)*	FebMayAugNov	grab	AprJulyOctJan
pH	5-9 SU	FebMayAugNov	grab	AprJulyOctJan
Total Suspended Solids (TSS)	(1)*	FebMayAugNov	grab	AprJulyOctJan
Nitrate-Nitrogen	10 mg/l	FebMayAugNov	grab	AprJulyOctJan
Phosphorus, Total	(1)*	FebMayAugNov	grab	AprJulyOctJan
Total Organic Carbon (TOC)	(1)*	FebMayAugNov	grab	AprJulyOctJan
Chromium, Total	0.05 mg/l	FebMayAugNov	grab	AprJulyOctJan
Lead, Total	0.05 mg/l	FebMayAugNov	grab	AprJulyOctJan
Manganese	0.05 mg/l	FebMayAugNov	grab	AprJulyOctJan

Flow, in gpd	(1)*	continuous	continuous	AprJulyOctJan
Total Dissolved Solids (TDS)	500 mg/l	FebMayAugNov	grab	AprJulyOctJan
Dissolved Oxygen	(1)*	FebMayAugNov	grab	AprJulyOctJan
Specific Conductance	(1)*	FebMayAugNov	grab	AprJulyOctJan
Sodium	50 mg/l	FebMayAugNov	grab	AprJulyOctJan

NOTES:

(1)* Only monitoring is required for the DGW. Limitations may be required by the applicable DSW permit.

4. An EP Toxicity test or a Department approved replacement for this method must be performed on an annual basis on the sludge within the polishing basin and Tilton Road Pond. The test shall be performed on a composite sample and will include the contaminants listed in N.J.A.C. 7:26-8.12.

ADDITIONAL GENERAL CONDITIONS FOR INDUSTRIAL DISCHARGES BY INFILTRATION-PERCOLATION LAGOONS

I. Construction Requirements

A. All Infiltration-Percolation Lagoons

1. Infiltration-percolation lagoon(s) shall be designed, constructed, maintained and operated to prevent overtopping and sidewall failure.

2. All lagoons shall be fenced or otherwise have access restricted.

II. Operation and Maintenance

A. General Requirements

1. The permittee shall perform an inspection of all visible portions of the lagoon(s) on at least a monthly basis and after storms to:

   a. Ensure that the foundation, banks and dikes are structurally sound;

   b. Detect evidence of any deterioration, malfunctions or other improper operation of the overtopping control system;

   c. Detect erosion, undermining or other signs of deterioration in dikes, banks, foundations or other containment devices.

2. The permittee must comply with N.J.A.C 7:14A-2.5(a)12. when reporting noncompliance.

3. Prior to removal and disposal of any sludge from a lagoon, the permittee shall, at his own expense, perform an EP Toxicity test (or other tests required by the Department) by a New Jersey certified laboratory. Results shall be sent to the Bureau of Hazardous Waste Regulation Classification and Technical Assistance [phone (609) 292-8341] to determine the classification of the sludge. Based on these results, the permittee shall dispose of the sludge in a manner approved by the Department.

4. If a lagoon is repaired or if it has been inactive (minimum of 6 months), the permittee shall obtain a certification from a New Jersey licensed Professional Engineer that the lagoon will withstand the physical and

chemical stresses of the resumed operation.

B. Contingency Requirements

1. Within six (6) months of the effective date of the permit, the permittee shall develop a worst-case emergency repair plan which shall be submitted for Departmental approval. The plan shall include, at a minimum, provisions for the collapse or overrun of a bank or berm, failure of the foundation, or other events that necessitates removal of the contents of the lagoon(s). A detailed description shall be given of the methods by which the contents of the lagoon(s) will be emptied and disposed. This plan, upon Department approval, shall be kept at the facility at all times and a copy of the plan will be forwarded to the local governmental agencies.

2. When a lagoon must be removed from service because of the potential for structural collapse or overtopping, the permittee shall 1) cease all discharges to the lagoon 2) take all necessary steps to prevent any catastropic failure 3) notify the Department immediately by telephone at (609) 292-7172 and 4) give the Department written notification within seven (7) days. If the problem cannot be stopped within 24 hours after detection, the worst-case contingency plan shall be implemented.

3. No lagoon that has not been removed from service in accordance with the requirements of this section may be restored to service unless the portion of the lagoon which was failing is repaired.

   a. If the lagoon was removed from service due to actual or imminent bank or sidewall failure, a New Jersey licensed Professional Engineer shall certify the structural integrity of the bank and sidewall prior to the redirection of flow to the lagoon.

   b. The Department reserves the right to inspect a lagoon at any time during the repairs. If, in the judgment of the Department, the original lagoon system or portions of the system were insufficient or inadequate, the permittee shall install a new upgraded system subsequent to approval by the Department.

   c. A lagoon that is to be removed from service shall be closed in accordance with a NJPDES-DGW Closure-Post-Closure Permit.

C. Closure Requirements

1. The permittee shall, no later than 180 days prior to the expected closure of a lagoon, submit to the Department an application for a NJPDES/DGW Closure-Post-Closure Permit. The application shall identify all closure and post-closure activities that will be conducted during the closure and post-closure periods.

INTERIM REMEDIAL MEASURES

Interim remedial measures must be designed to mitigate environmental problems that pose an imminent threat to human health and/or the environment. Interim remedial measures may also be required by the Department in order to prevent the movement of pollutants off-site from the facility or to mitigate any contamination which may have already moved off-site. Interim remedial measures should be designed to be consistent with and/or integrated into final corrective measures for the facility whenever possible. The Department shall decide if and when interim remedial measures are required in accordance with the requirements of this permit.

I. SUBMITTAL AND IMPLEMENTATION REQUIREMENTS

A. If at any time the Department determines that newly acquired information indicates that contamination from past or present activities at the Permittee's facility poses an imminent threat to human health or the environment and is moving off-site, the Permittee shall be required to implement one or more of the following:

1. Interim remedial measures as directed by the Department to be implemented by the Permittee within a Department specified time frame and consistent with Appendix A, or;

2. Within 30 calendar days of discovery of the threat to human health and/or the environment or notification from the Department, the Permittee must submit a proposal for interim remedial measures in accordance with Appendix A. The proposal for interim remedial measures will be approved and/or modified by the Department and implemented within a Department specified time frame.

RCRA FACILITY INVESTIGATION

Pursuant to the intent and specific requirements of the New Jersey Pollutant Discharge Elimination System (NJPDES) regulations N.J.A.C. 7:14A-1.1 et seq. [see 1.1, 1.2, 1.7, 2.1(f), 6.1(a)1-3,5,6,(b), and 6.15(d)2], the RCRA Facility Investigation (RFI) must be designed to: characterize the facility; define the sources of contamination; define the degree and extent of contamination; and, identify actual or potential receptors of pollutants at, emanating from, or that have emanated from the facility. Also, the RFI shall result in data of adequate technical quality to support the development and evaluation of the corrective measures alternative(s) during the Corrective Measures Study (CMS) and a Detection Monitoring Program.

Based on the approved RFI Report, data, information, and recommendations, the Department will determine whether a Corrective Measures Study must be performed to develop and evaluate remedial alternatives for all impacted media. In addition, the RFI Report must recommend which Solid Waste Management Units (SWMUs) or other Areas of Concern (AOC) should be included in the Detection Monitoring Program, or if any Interim Remedial Measures (IRMs) are needed to mitigate any environmental problems that pose an imminent danger to human health or the environment.

The area(s) that should be included in an Interim Remedial Measure, a Corrective Measures Study, and/or a Detection Monitoring Program shall be included in the Department's letter approving the RFI Report. In addition, the Department will issue preliminary clean-up criteria for development of a CMS for each impacted medium as part of this notification. The Department shall develop the preliminary clean-up criteria based on N.J.A.C. 7:14A-6.15, N.J.A.C. 7:9-5 and 6, N.J.A.C. 7:26-1 et seq., available Departmental guidance, and applicable Federal regulations.

Lenox China has already partially completed their RFI and should reference all previously completed reports or work plans in the appropriate documents discussed below and/or in Appendix B or C.

I. SUBMITTAL AND IMPLEMENTATION REQUIREMENTS

A. Within 60 calendar days after the effective date of this permit, the Permittee shall submit to the Department a Facility Background Report in accordance with the requirements set forth in Appendix B.II, attached hereto and made a part hereof. The Department shall review the Report for accuracy and completeness as specified in Appendix B and specific requirements, below, and shall notify the Permittee in writing of any deficiencies or if any additional

information is required. The Permittee shall revise the Report to conform to the Department's comments within 60 calendar days of receipt of said comments, and resubmit the report to the Department.

B. Within 120 calendar days after the effective date of this permit, the Permittee shall submit to the Department a detailed Draft RCRA Facility Investigation Work Plan, (hereinafter the "RFI Work Plan") in accordance with Section III of the scope of work set forth in Appendices B and D, which are attached hereto and made a part hereof. The Permittee must follow the plans developed in accordance with Appendix C (as discussed in the following paragraph) while implementing the RFI Work Plan. In addition, the Draft RFI Work Plan must include all conditions that may be contained in the RFI Specific Requirements section of this part of the permit. The RFI Work Plan may contain separate phases of investigative work.

C. Within 90 calendar days after the effective date of this permit, the Permittee shall submit to the Department detailed draft versions of the Project Management Plan, the Data Collection Quality Assurance Plan, the Data Management Plan, and the Health and Safety Plan in accordance with the Scope of Work set forth in Appendix C, which is attached hereto and made a part hereof.

D. Within 60 calendar days after receipt of the Department's written comments on the Draft RFI Work Plan and the supporting Appendix C plans, the Permittee shall modify these draft plans to conform to the Department's comments and shall submit the modified plans to the Department. The determination as to whether or not the modified plans, as resubmitted, conform to the Department's comments shall be made solely by the Department. The Department's comments will be strictly limited to require consistency with the Scope of Work in Appendices B and C, and the specific requirements, listed below.

E. Upon receipt of the Department's written approval of the revised RFI Work Plan and the Appendix C supporting plans, the Permittee shall conduct the RFI in accordance with these approved plans and the schedules therein.

F. The Permittee shall submit to the Department a draft RCRA Facility Investigation Report (hereinafter "RFI Report") in accordance with the Data Management Plan (Appendix C), Condition IV of Appendix B, and the RFI Work Plan and the schedule therein.

G. If upon review of the draft RFI Report or at any time after the issuance of this permit the Department determines that additional investigation is required (e.g., new SWMUs or AOCs or new releases at existing SWMUs or AOCs are

Put language to allow the company to request a meeting

identified), the Permittee shall conduct additional RFI work as directed by the Department, consistent with Appendix B and submit a second draft RFI Report. The finding of new SWMUs or AOCs must be reported to the Department in writing within 15 calendar days of their discovery.

H. Within 60 calendar days after receipt of the Department's written comments on the draft or second draft RFI Report (if applicable pursuant to the preceding paragraph), the Permittee must modify the report to conform to the Department's comments and resubmit the modified RFI Report to the Department. The determination as to whether or not the modified or final RFI Report, as resubmitted, conforms to the Department's comments shall be made solely by the Department in writing. The Department's comments will be strictly limited to require consistency with the Scope of Work in Appendices B and C, and the specific requirements, listed below.

II. SPECIFIC REQUIREMENTS

These specific conditions are written to supplement Appendix B. Each section below (unless otherwise stated) corresponds to a section of Appendix B and includes additional detailed conditions that must be included in the RFI Work Plan.

A. Requirements of RCRA Facility Investigation (RFI):

1. The permittee must determine the impact of past and present production and disposal activities on the soil and ground water at the Lenox China facility. The permittee shall propose sampling plans that adequately assess the nature and extent of contamination (if any) of the following areas of concern where waste and/or products were managed and other discharges to ground water have occurred or provide justification that the areas have not been impacted by past activities. For all SWMU's the requirements of the RFI as outlined in Appendix B, Part I, must be fulfilled and it must be determined if the units listed below should be included in an Interim Remedial Measure, Corrective Measures Study, Detection Monitoring Program or if further investigation is necessary.

   a. The following Solid Waste Management Units (SWMUs) were identified at the Lenox China Facility.

      1. Degreaser Sludge Pit
      2. Sludge Disposal Area
      3. Waste Pile
      4. Polishing Lagoon
      5. Tilton Road Pond

6. Underground Effluent Transfer Pipe
7. Equalization Sump
8. Wastewater Treatment Piping
9. Underground Storage Tanks
*10. Glaze Basin
*11. Slip Basin
*12. Drum Storage Area

NOTE: * The glaze basin, slip basin and drum storage area are RCRA regulated units. Both the glaze and slip basins were closed in 1990 and both basins are subject to post-closure requirements. The Drum Storage Area was closed in August of 1990.

b. The following Area Of Concern (AOC) was identified at the Lenox China Site:

1. Area of Stressed Vegetation

2. Area Between Well #10 and Aloe Street

3. The permittee must determine the hydrogeology and background soil, sediment and ground water quality conditions at the site.

4. For all SWMUs listed above, fulfill the requirements of the RFI as outlined in Appendix B, Part I and determine whether the units listed above should be included in an Interim Remedial Measure, Corrective Measures Study, Detection Monitoring Program, or if further investigation is necessary.

B. Contents of Facility Background Report

1. The Facility Background Report must, to the best of Lenox China's knowledge, include all activities, past and present, that have or may have caused a release or discharge, such as the production, transport, storage, disposal, treatment, spill and discharge of products and waste, including estimates of volume, location and dates of these activities. The permittee must use Appendix B, Part II as guidance. Specifically, the following items must be included:

a. The past operating history and procedures for underground storage tanks must be explained.

b. Lenox must also provide the following information concerning the tanks:
-listing of all tanks
-date tanks were installed

-capacity of the tanks
-tank construction material
-tank contents
-source of tank contents
-dates that tanks were taken out of service.

c. The origin and past operating history of the Waste Pile (SWMU #3) must be determined.

d. Lenox must investigate the past use of land in the area of stressed vegetation (AOC #1) and/or submit all existing data or information concerning this area.

e. Referencing the trichloroethylene (TCE) investigation and remediation Report and/or providing new information on the sources of TCE contamination.

C. Contents of RCRA Facility Investigation (RFI) Work Plan

1. The permittee must propose the sample locations and amount of samples needed to define the background soil and sediment quality.

a. Lenox must conduct a soil/sediment investigation in those areas where past discharges have occurred and where suspected or potential contamination is possible. These areas are listed below.

1. Degreaser Sludge Pit
2. Waste Pile
3. Polishing Lagoon
4. Tilton Road Pond
5. Underground Effluent Transfer Pipe
6. Equalization Sump
7. Wastewater Treatment Pipe
8. Underground Storage Tanks
9. Drum Storage Area

2. A minimum of four soil borings are required at each area listed above. Additional borings will be required if the minimum amount is not sufficient to allow an accurate delineation of the vertical or horizontal extent of contamination.

a. For the underground storage tanks, effluent transfer pipe and wastewater facility piping, at least one sample should be located in the area of the filling and discharge pipe(s) or opening(s) if the location(s) is/are known. Other samples for the tanks should be at the same depth as the bottom of the tanks.

b. In accordance with N.J.A.C. 7:26-9.9(e), Lenox should avoid, if possible, disturbing the northern portion of

glaze basin cap during the investigation of the waste pile.

c. Soil borings which are greater than 25 feet deep or which intersect the water table require NJDEPE well permits. After the samples are taken, all holes must be sealed by a licensed New Jersey well driller certified to seal borings.

3. The permittee must conduct an investigation to determine the impact of SMWUs on the ground water and to define background ground water quality and site-wide hydrogeology. Ground water monitoring and sampling points must be capable of accurately defining the horizontal and vertical extent of contamination which may be at the site, emanating from the site and/or emanating from each SWMU.

a. Ground water samples and/or ground water elevations will be taken from the following onsite wells and piezometers:

Wells MW-1, MW-3, MW-4, MW-6, MW-7, MW-8, MW-10, MW-15
Piezometers P-5, P-18, P-21

b. Lenox must conduct an investigation to determine the origin of the zinc which has been detected in Monitoring well #3.

c. Lenox shall install three monitoring wells. One will be located on the northeastern edge of the property down gradient of the degreaser sump. A second and third well should be installed in a location down gradient of the Area Of Concern between well #10 and Aloe Street. All three wells will be screened in the Upper Cohansey aquifer. Monitor well specifications are given in Appendix D.

d. In addition to the monitoring wells, Lenox must obtain ground water samples from recovery well RW-1, which is to be used during the remediation of the TCE contaminated ground water at the site, prior to the start of pumping.

4. All soil, sediment and sludge samples in areas where past discharges have occurred must be analyzed for Priority Pollutants plus forty highest unknowns unless the permittee can document, to the Department's satisfaction, the specific compound(s) within any actual or potential discharges. In addition, the permittee must also propose the parameters to be analyzed for that will sufficiently quantify the impact of the discharge(s). The Department will evaluate this proposal in terms of the criteria set forth in N.J.A.C. 7:14A-6.15(d)2i.1-9

and ii.1-10. The permittee will be notified in writing of the Department's decision on the proposed alternate analyses.

Ground water samples will be sampled and analyzed in accordance with Table 2 of the Detection and Corrective Action Ground Water Monitoring Requirements and Standards, Part III-DGW section of this permit. Ground water sampling and analyses for additional parameters may be required based on results of soil, sediment and sludge sampling.

D. Contents of RCRA Facility Investigation (RFI) Report

1. Lenox shall prepare a comprehensive analysis and summary of the results derived from the RCRA Facility Investigation, and make recommendations for any additional investigations as required by Appendix B, Section IV.

2. The RFI Report must document that the data produced by the investigation are sufficient in quality and quantity to fully describe the nature and extent of contamination, potential threat to human health and/or the environment, and to support any Interim Remedial Measures, Corrective Measures, and/or Detection Monitoring Program.

DETECTION MONITORING PROGRAM

The New Jersey Pollutant Discharge Elimination System (NJPDES) Discharge to Ground Water (DGW) Detection Monitoring Program, developed from the RCRA Facility Investigation (RFI) Report, must be designed to monitor the impact or potential impact of a unit or area on the ground waters of the state of New Jersey over an extended period. A Detection Monitoring Program must also be designed to determine the effectiveness of past or on-going closure or corrective measures, except ground water remediation, and monitor for leaks or failures of hazardous-chemical or waste-containment units. The Permittee is required to propose a Detection Monitoring Program which includes all units or areas which are an actual discharge or pose a potential for discharge to ground water but do not, at this time, have to be included in a ground water remediation program proposed in the CMS or that are not already included in the existing Detecting Monitoring Program of Part III of this permit. Proposed changes to the existing Detection Monitoring Program can also be submitted at this time.

I. SUBMITTAL AND IMPLEMENTATION REQUIREMENTS

A. Within sixty (60) calendar days following the Department's final approval of the RCRA Facility Investigation (RFI) Report, the Permittee shall submit to the Department a draft Detection Monitoring Program in accordance with the requirements set forth in N.J.A.C. 7:14A-6.15(i) and Appendix E, attached hereto and made part hereof. The Department will review the proposal for completeness and shall notify the Permittee, in writing, of any deficiencies or if additional information is required.

B. Within thirty (30) calendar days after the receipt of the Department's written comments on the draft Detection Monitoring Program proposal, the Permittee should modify the draft proposal to conform to the Department's comments and submit the final proposal to the Department. The determination as to whether or not the final proposal, as resubmitted, conforms to the Department's comments shall be made solely by the Department. The Department's comments will strictly be limited to accomplishing compliance with the requirements of N.J.A.C. 7:14A-6.15 and Appendix E.

If the final proposal conforms to the Department's comments and/or qualifies as a minor modification (see N.J.A.C. 7:14A-2.14), the Department will approve and require implementation of the proposal through a letter. If the final proposal does not conform to the Department's comments, the Department may issue a major modification (see N.J.A.C. 7:14A-2.12) of this permit to require implementation of a modified version of the proposal.

CORRECTIVE MEASURES STUDY

As stated in section II below, Specific Conditions, the permittee has already partially completed the requirements of this part of this permit. As part of the final approval of the RCRA Facility Investigation (RFI) Report, the Department will notify the Permittee, in writing, of whether or not an additional Corrective Measures Study (CMS) must be undertaken as a requirement of this permit. The Department will use the results of the RCRA Facility Investigation as the basis for requiring such a Corrective Measures Study and the specific area(s) that need corrective measures. In the Corrective Measures Study, the Permittee must identify, screen, evaluate, and develop the alternative or alternatives capable of removal, containment, and/or other remediation of all significantly (as defined by the Department) polluted media. All alternatives must be evaluated based on technical, environmental, human health, and institutional concerns. The Permittee's preferred alternative must be identified and justified and its conceptual design developed. The Corrective Measures Study must also include a proposal for ground water monitoring to determine and/or verify the effectiveness of the preferred alternative.

Based on the results of the approved CMS, the Department shall select a remedial alternative that will (1) be protective of human health and the environment; (2) meet the minimum protection standards that the remedy must achieve in order to be protective of human health and the environment; (3) control the source(s) of the release(s) of contaminants so as to reduce or eliminate, further releases that might pose a threat to human health or the environment; and, (4) meet all applicable waste management practices.

In conformance with N.J.A.C. 7:14A-2.12, the Department shall prepare a Major Modification to this permit requiring the implementation of any selected corrective measure(s) and establishing media protection standards. Issuance of the Major Modification of this permit shall follow the procedures outlined under N.J.A.C. 7:14A-7 and 8.

I. SUBMITTAL AND IMPLEMENTATION REQUIREMENTS

A. Within sixty (60) calendar days after receipt of the Department's written final approval of the RFI Report and determination that some form of corrective action is needed, the Permittee shall submit to the Department a draft Corrective Measures Study Work Plan (hereinafter, "CMS Work Plan") in accordance with the scope of the work set forth in Appendix F which is attached hereto and made a part hereof.

B. Within thirty (30) calendar days after receipt of the Department's written comments on the draft CMS Work Plan, the Permittee shall modify the draft CMS Work Plan to conform to the Department's comments and shall submit the modified CMS Work Plan to the Department. The determination as to whether or not the modified CMS Work Plan, as resubmitted, conforms to the Department's comments shall be made solely by the Department. The Department's comments shall be strictly limited to require consistency with Appendix F.

C. Upon receipt of the revised CMS Work Plan the Department shall approve and/or modify the Work Plan. This approval and/or approval with modification shall be given in writing. Upon receipt of the Department's written final approval of the CMS Work Plan, the permittee shall conduct the corrective measures study in accordance with the approved CMS Work Plan and the schedule therein.

D. The Permittee shall submit to the Department a draft Corrective Measures Study Report (hereinafter "CMS Report") in accordance with Condition III of Appendix F and the approved CMS Work Plan and the schedule therein.

E. Within thirty (30) calendar days after receipt of the Department's written comments on the draft CMS Report, the Permittee shall modify the draft CMS Report to conform to the Department's comments and shall submit the modified CMS Report to the Department. The determination as to whether or not the modified CMS Report, as resubmitted, conforms to the Department's comments shall be made solely by the Department in writing. The Department's comments will be strictly limited to require consistency with Appendix F.

II. SPECIFIC CONDITIONS

A. The permittee has conducted and completed a corrective measures study for the remediation of trichloroethylene (TCE) contaminated ground water at the Lenox China facility in Pomona. The report, dated August 1990, was received by the Department and is entitled "Summary Report of the Investigation of Trichloroethylene in Ground Water and Proposed Ground Water Remedial System". The Department has reviewed and approved this corrective measures report.

CORRECTIVE MEASURES IMPLEMENTATION

The August 1990 reports entitled "Ground Water Remediation Design Report" and "Technical Specifications, Ground Water Remediation System" as well as Lenox's NJPDES Application for corrective action and injection of treated ground water via injection wells is hereby approved by the Department with the following additional conditions and requirements. This ground water corrective action program must comply with the requirements of N.J.A.C 7:14A-6.15(k) and 5.1 et seq.

The permittee is currently evaluating the option of injecting treated ground water into an injection trench. If this option is pursued, the permittee must submit a report which contains all results of the injection pilot test conducted in July 1991 and all technical specifications for the design, construction, operation and monitoring of the injection trench. The permittee must also submit a revised NJPDES application for corrective action which reflects the injection of treated ground water via a injection trench. This ground water corrective action program must comply with the requirements of N.J.A.C. 7:14A-6.15(K). The permittee's preferred injection scenario must be approved by the Department prior to implementation. This approval will not require a major modification of the permit unless changes to any requirements of this permit are necessary.

The Corrective Measures Plan recommends the use of injection wells as part of the TCE ground water remediation program. If the injection scenario is implemented, the construction and use of injection wells for this purpose must follow the guidelines for Underground Injection Control (UIC). (See Section X below.)

I. The applicable list of hazardous constituents and their ground water protection standards are given in Part III-DGW Table 2, pages 7 and 8 of 10. These are the ground water clean-up numbers for the remediation of the volatile organics contamination.

II. The point of compliance is defined in Part III-DGW Condition 14, page 4 of 10.

III. Pursuant to N.J.A.C. 7:14A-6.15(k)5 and 6:

A. The compliance period for Lenox's corrective action program extends as long as necessary to achieve compliance with the ground water protection standards for volatile organics listed in Part III-DGW Table 2, pages 7 and 8 of 10;

B. Hydraulic controls and recovery of contaminated ground water must be obtained and maintained for the entire plume of contamination exceeding the ground water

protection standards established in Part III-DGW, Table 2. Hydraulic control and recovery of ground water may be terminated if concentrations in the ground water are below the ground water protection standards for two consecutive quarterly rounds of sampling for all monitoring wells included in the corrective action program; and

C. The Compliance Period and corrective action ground water monitoring shall continue until the owner/operator can demonstrate that the ground water protection standards of Part III-DGW, Table 2 have not been exceeded for a period of three years after corrective action measures (i.e. hydraulic control and recovery of ground water) have ceased. If the ground water protection standard is exceeded within this time frame, the corrective action process shall be re-activated. In making this demonstration, the ground water protection standards shall be monitored at all corrective action program monitoring wells or as otherwise determined by the Department.

IV. For the injection well scenario, effluent samples from the ground water treatment unit shall be taken according to the schedule in Table 4 below. For the injection trench scenario, effluent samples shall be taken according to the schedule in Table 5. A sample of recovered ground water prior to treatment should be taken annually in order to evaluate treatment system performance and changes in recovered ground water over time. The first sample should be taken in the first quarterly sampling month listed below after the "start up" month for the ground water treatment system. Subsequent annual samples should be taken in May. These samples should be analyzed for the same parameters listed in Table 4 (injection wells) or Table 5 (injection trench). Data from analyses of any additional samples of this type that the permittee takes must be submitted to the Bureau of Ground Water Pollution Abatement (BGWPA) at the same time as the quarterly data is submitted pursuant to N.J.A.C. 7:14A-2.5(a)12vi.

A. All sampling will be performed according to the methodology specified in the Department's Field Procedures Manual for Water Data Acquisition.

B. Effluent Discharge Monitoring Report Forms will be sent from the Department to the Permittee. These forms must be completed and submitted to the address given in Condition Eleven, Part III-DGW, page 3 of 10. Copies of these forms should be sent to the address in Condition Twelve, Part III-DGW, pages 3 and 4 of 10. The forms must be submitted at the same time and frequency as the ground water monitoring reports.

C. The established limits in Table 4 (injection wells) or Table 5 (injection trench) shall be met at the sampling point following treatment in the granular activated carbon treatment system prior to distribution to the injection system. If the discharge limit is exceeded at any time, injection of treated water shall cease immediately and shall not commence without approval of the Department. Ceasing the discharge shall not be used as a defense against violation of permit discharge concentration limits or completion of the ground water decontamination.

TABLE 4

Corrective Measures Effluent Sampling: Injection Wells

PARAMETER	EFFLUENT LIMITATIONS	SAMPLING MONTH	SAMPLING TYPE	REPORTING MONTH
Temperature, water	(1)*	FebMayAugNov	grab(2*)	AprJulOctJan
Chemical Oxygen Demand (COD)	(1)*	FebMayAugNov	grab	AprJulOctJan
pH	(1)*	FebMayAugNov	grab	AprJulOctJan
Total Suspended Solids (TSS)	(1)*	FebMayAugNov	grab	AprJulOctJa
Phosphorus, Total	(1)*	FebMayAugNov	grab	AprJulOctJa
Total Organic Carbon (TOC)	(1)*	FebMayAugNov	grab	AprJulOctJa
Lead, Total	.05 ppm	FebMayAugNov	grab	AprJulOctJ
Iron	(1)*	FebMayAugNov	grab	AprJulOctJ
Zinc	5 ppm	FebMayAugNov	grab	AprJulOct
Ammonia-Nitrogen	(1)*	FebMayAugNov	grab	AprJulOct
Sulfate	(1)*	FebMayAugNov	grab	AprJulOct
Sodium	(1)*	FebMayAugNov	continuous	AprJulOct
Flow, in gpd	(1)*	FebMayAugNov	grab	AprJulOc
Total Dissolved Solids (TDS)	(1)*	FebMayAugNov	grab	AprJulOc

Trichloroethylene	1 ppb	FebMayAugNov	grab	AprJulOctJan
1,1-Dichloroethylene	2 ppb	FebMayAugNov	grab	AprJulOctJan
cis-1,2-Dichloroethylene	10 ppb	FebMayAugNov	grab	AprJulOctJan
trans-1,2-Dichloroethylene	10 ppb	FebMayAugNov	grab	AprJulOctJan
Methylene Chloride	2 ppb	FebMayAugNov	grab	AprJulOctJan
Vinyl Chloride	5 ppb	FebMayAugNov	grab	AprJulOctJan
Chloroform	5 ppb	FebMayAugNov	grab	AprJulOctJan

TABLE 5

Corrective Measures Effluent Sampling: Injection Trench

PARAMETER	EFFLUENT LIMITATIONS	SAMPLING MONTH	SAMPLING TYPE	REPORTING MONTH
Temperature, water	(1)*	FebMayAugNov	grab(2*)	AprJulOctJan
Chemical Oxygen Demand (COD)	(1)*	FebMayAugNov	grab	AprJulOctJar
pH	(1)*	FebMayAugNov	grab	AprJulOctJa
Total Suspended Solids (TSS)	(1)*	FebMayAugNov	grab	AprJulOctJa
Phosphorus, Total	(1)*	FebMayAugNov	grab	AprJulOctJ
Total Organic Carbon (TOC)	(1)*	FebMayAugNov	grab	AprJulOctJ
Lead, Total	.05 ppm	FebMayAugNov	grab	AprJulOct
Iron	(1)*	FebMayAugNov	grab	AprJulOct
Zinc	5 ppm	FebMayAugNov	grab	AprJulOc
Ammonia-Nitrogen	(1)*	FebMayAugNov	grab	AprJulOc
Sulfate	(1)*	FebMayAugNov	grab	AprJulO
Sodium	(1)*	FebMayAugNov	grab	AprJulO
Flow, in gpd	(1)*	FebMayAugNov	continuous	AprJulO

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Total Dissolved Solids (TDS)	(1)*	FebMayAugNov	grab	AprJulOctJan
Trichloroethylene	10 ppb	FebMayAugNov	grab	AprJulOctJan
1,1-Dichloroethylene	10 ppb	FebMayAugNov	grab	AprJulOctJan
cis-1,2-Dichloroethylene	10 ppb	FebMayAugNov	grab	AprJulOctJan
trans-1,2-Dichloroethylene	10 ppb	FebMayAugNov	grab	AprJulOctJan
Methylene Chloride	10 ppb	FebMayAugNov	grab	AprJulOctJan
Vinyl Chloride	10 ppb	FebMayAugNov	grab	AprJulOctJan
Chloroform				

NOTES:

(1)* Monitoring only is required. No DGW limits have been set at this time. Effluent limits could be set in the future if monitoring data indicates it is necessary.

(2)* "Grab" means an individual sample of at least 100 milliliters collected over a period not exceeding 15 minutes.

V. The permittee shall also submit a monthly report to the BGWPA including total volume of ground water withdrawn, total volume of treated ground water injected and any upsets or malfunctions in the recovery, treatment or injection systems that may have occurred during the month.

VI. The permittee shall submit ground water elevation contour maps quarterly for the entire facility based on water levels obtained during quarterly sampling.

VII. The permittee must submit a report semi-annually which details the effectiveness of the approved decontamination program.

VIII. If the Department determines that the ground water corrective action system is not capable of meeting the requirements of this permit, the permittee must submit a plan within 45 days of the Departmental notification which must include but is not limited to the following:

a. The proposed location, depth and construction of the additional wells necessary to meet the permit requirements.

b. The rationale for the proposed locations.

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All wells required pursuant to this condition must be installed within 60 days of NJDEPE written approval.

IX. The Corrective Action outlined in the approved plan shall be instituted within ___ days of the effective date of this permit.

X. The permittee must comply with all applicable requirements of N.J.A.C. 7:14A-5.1. The following program, General Conditions for the Underground Injection Control (UIC) of Class V Wells are specified based on those requirements.

A. Construction Requirements

1. Construction of New Class V Wells

a) Class V wells will be constructed in accordance with the requirements and specifications set forth in N.J.A.C. 7:14A-5.17(c) and 5.13.

b) The area of review for the injection wells or injection fields shall be determined in accordance with N.J.A.C. 7:14A-5.13(a)1-3.

B. Operation and Maintenance

1. General Requirements

a) The permittee must obtain a well drilling permit before constructing any well. Applications for well permits can be obtained from:

Water Supply Element
CN-029
Trenton, New Jersey 08625

b) The permittee is required to submit inventory information regarding the well(s) to the Department when an application is made for a Class V well drilling permit. This information must consist of the following:

- well drilling permit number
- facility name and location
- name and address of legal contact
- ownership of facility
- nature and type of injection well(s)
- operating status of injection well(s)

2. Pursuant to N.J.A.C. 7:14A-5.5(b)1iii, th
Department required the permittee to obtain this
UIC/NJPDES permit for Class V injection wells.
The protection of the underground sources of
drinking water require that the injection system
be regulated by requirements for corrective
action, monitoring and reporting and operation.
Pursuant to N.J.A.C. 7:14A-5.9, the following
conditions apply:

a) The permittee does not need to comply with the provisions of this UIC permit if noncompliance is authorized under a temporary emergency permit.

b) The permittee shall retain all monitoring records and all records concerning the nature and composition of injected fluids until five (5) years after completion of any plugging and abandonment procedures.

c) New injection wells may not commence injection until construction is complete and the permittee has submitted well completion reports and the Department has inspected or otherwise reviewed the new injection wells and find them in compliance with permit conditions.

C. Contingency Requirements

1. The permittee is required to report to the Department the following conditions within 24 hours:

a) Any monitoring or other information which indicate that contaminants may endanger a potable supply well.

b) Any noncompliance with permit conditions or a malfunction of the injection system that may cause contaminated fluid migration to a potable supply well.

2. The permittee is required to report to th Department the following conditions within hours:

a) Any monitoring or information which indic that a contaminant may cause endangerment an underground source of drinking water.

b) Any noncompliance with permit conditions malfunction of the injection system that

cause fluid migration into or between an underground source of drinking water.

3. No UIC authorization will be allowed if a Class V well causes or allows movement of fluids containing any contaminants into underground sources of drinking water and if the presence of the contaminants may cause a violation of any primary drinking water standards under N.J.A.C. 7:10-5, ground water quality standards under N.J.A.C. 7:9-6 or which may adversely affect the health of humans. If at any time the Department learns that Class V wells are causing violations as stated above, the Department shall:

a) Order the permittee to take such action as is necessary to prevent or stop the violation; and/or

b) Take enforcement action.

D. Plugging and Abandonment

1. The permittee shall notify the Department at least 180 days before the conversion or abandonment of the well. Along with this notice, the permittee shall submit a plugging and abandonment plan which will follow the requirements of N.J.S.A 58:4A-4.1 et seq and N.J.A.C. 7:9-9 (sealing of abandoned wells) where applicable.

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SPECIAL CONDITIONS FOR POST-CLOSURE OF THE RCRA REGULATED LAGOONS

I. Glaze Basin

A. Post-closure care of the glaze basin has been approved by the Department following completion of the closure of the glaze basin in July 1990. The permittee shall implement the approved post-closure plan entitled "Post-closure Plan - Glaze Basin, Lenox China, Pomona, New Jersey" dated October 1988, with the clarifications and conditions listed below.

B. In accordance with N.J.A.C. 7:26-9.9(m), Lenox submitted a survey plat to the Department and local zoning authority that details the location and size of the closed area with respect to permanent, surveyed benchmarks. The plat was prepared and certified by a professional land surveyor. This survey plat was received by the Department on May 24, 1990.

C. In accordance with N.J.A.C. 7:26-9.9 (e), the permittee will not use the portion of the closed glaze basin along the north wall where hazardous waste and residual contaminated subsoil remains in any way which will disturb the integrity and function of the cap and well monitoring systems.

D. Lenox shall regularly maintain and inspect the paved cap to insure the structural integrity and make repairs as needed. Inspection of the cap and the well system will be conducted on a monthly basis. The inspection reports will summarize the following information:

1. The condition of the final cap.

2. The condition of all ground water monitoring equipment.

3. Any maintenance required during the post-closure period in order to comply with post-closure monitoring.

E. Ground water sampling, analysis and reporting will follow all applicable guidelines and requirements of Part III-DGW section of this permit entitled Detection and Corrective Action Ground Water Monitoring Requirements and Standards.

F. Post-closure maintenance and well monitoring shall continue for 30 years after closure. The time period for post-closure care may be shortened or extended by the Department in accordance with N.J.A.C. 7:26-9.9(c).

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II. Slip Basin

A. Post-closure care of the slip basin has been approved by the Department following the completion of closure of the slip basin in September 1990. The permittee shall implement the approved post-closure plan with the conditions and clarifications listed below.

B. In accordance with N.J.A.C. 7:26-9.9(e), the permittee may not use any portion of the closed slip basin that will in any way disturb the integrity and function of the cap and ground water monitoring system in this area.

C. Lenox shall regularly maintain and inspect the final cover to ensure soil erosion control and structural integrity. Lenox will also ensure that the appropriate vegetation for the soil and climate is grown and maintained on the cap on a year round basis. Inspection reports will be prepared and will summarize the following information:

1) The integrity of the cap.

2) The condition of the ground water monitoring wells for the closed basin.

3) Any maintenance and repairs required during the post-closure period in order to comply with post-closure care and monitoring.

D. Ground water sampling, analysis and reporting will follow all applicable guidelines and requirements as listed in the section of this permit entitled <u>Detection and Corrective Action Ground Water Monitoring Requirements and Standards</u>.

E. Post-closure requirements and well monitoring shall continue for thirty (30) years after closure of the basin. The time period for post-closure may be shortened or extended by the Department in accordance with N.J.A.C. 7:26-9.9(c).

NYJ 002 325 074 NOV 22 RECD

AP 1F

State of New Jersey
Department of Environmental Protection and Energy
Division of Publicly Funded Site Remediation
CN 413
Trenton, NJ 08625-0413
Tel. # 609-984-2902
Fax. # 609-633-2360

Scott A. Weiner
Commissioner

Anthony J. Farro
Director

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Stephen F. Lichtenstein
Lenox Inc.
100 Lenox Drive
Lawrenceville, NJ 08648-2394

PE91 - NOV 19 1991

Re: Emergency NJPDES-DGW Permit No. NJ0086487 For Lenox China Facility, Pomona, Atlantic County.

Dear Mr. Lichtenstein:

Enclosed is an emergency New Jersey Pollutant Discharge Elimination System (NJPDES) permit that has been issued pursuant to N.J.A.C. 7:14A-1 et seq. This NJPDES permit is issued under the authority of the New Jersey Water Pollution Control Act and contains conditions for the remediation of contaminated ground water through the operation of ground water recovery wells and a granular activated carbon treatment system with discharge to on-site injection trenches. The permit specifies monitoring parameters and sampling frequencies for the monitor wells, recovery wells and treatment system effluent as well as requirements for the evaluation of the recovery system.

This permit does not constitute a final agency action at the Lenox China site. The intent of issuance of the emergency permit is to halt the migration of contaminants towards actual and potential receptors. This Emergency Permit precedes a Final Permit that will be issued at a later date.

The appearance of the public notice in the newspapers marks the comencement of the mandatory 30-day public comment period required by Section 8.1 of the NJPDES regulations. During this time frame, both the permittee and concerned citizens may offer comments regarding the terms and conditions of this permit. All comments must be submitted within the appropriate time frame and in writing to:

Assistant Director
NJDEPE Division of Publicly Funded Site Remediation
Ground Water Quality Management Element
CN-029
Trenton, New Jersey 08625

If you have any questions regarding this letter, please contact Daryl Clark of my staff at (609) 292-8427.

Sincerely,

Irene Kropp, Chief
Bureau of Ground Water
Pollution Abatement

GWQM378
Enclosures

PUBLIC NOTICE AND STATEMENT OF BASIS
EMERGENCY NJPDES-DGW PERMIT

PROCESSING OFFICE

New Jersey Department of Environmental Protection and Energy
Division of Publicly Funded Site Remediation
Ground Water Quality Management Element
CN-029
Trenton, New Jersey 08625
(609) 292-8427

NAME AND ADDRESS OF APPLICANT

Lenox Inc.
100 Lenox Drive
Lawrenceville, New Jersey 08648

NAME AND LOCATION OF FACILITY

Lenox China, a division of Lenox Incorporated
Tilton Road
Pomona, New Jersey 08240
Atlantic County

NJPDES NUMBER: NJ0086487
EPA I.D. NUMBER: NJD002325074

DESCRIPTION OF FACILITY

Lenox China, a division of Lenox Incorporated, is located in a rural area on the outskirts of the Town of Pomona in southeastern New Jersey. The facility manufactures ceramic dinnerware and giftware. The manufacturing process includes the progressive dewatering of clay solution (slip) to form the shape of the ceramic pieces. The pieces are then kiln fired, coated with a leaded glaze mixture, and then refired. Process wastes include waste solvent sludge, which is drummed and disposed of off site, clay solution waste (slip) and glaze waste (fritted lead compounds).

DESCRIPTION OF DISCHARGE

A documented release of trichloroethylene (TCE) to the ground water has occurred. Investigations conducted by Lenox indicate there are two sources of this contamination. The two suspected

sources are an antecedent drum storage pad and degreaser sump. The migration of the contaminated ground water represents a imminent threat to ground water supplies downgradient of the facility.

RECEIVING WATERS

The ground waters of the State. The actual and potential discharges are to the Miocene Age Cohansey Sand which is underlain by the Kirkwood Formation.

DESCRIPTION OF PERMIT

This notice is being given to inform the public that the New Jersey Department of Environmental Protection and Energy (NJDEPE) has issued an Emergency New Jersey Pollutant Discharge Elimination System-Discharge to Ground Water (NJPDES/DGW) Permit in accordance with the provisions of the New Jersey Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and its implementing regulations (N.J.A.C. 7:14A-1 et seq.).

This permit is designed to regulate and monitor the operation of a ground water recovery and treatment system that discharges treated ground water to on-site infiltration trenches. The permit specifies monitoring parameters and sampling frequencies for the monitor wells, recovery wells and treatment system effluent as well as requirements for evaluation of the treatment system.

Lenox China is an existing facility and implementation of the NJPDES requirements are the enforcement mechanism by which existing pollutant discharges are brought into conformance and compliance with laws, regulations and standards. The pollution control requirements are those conditions necessary to restrict the discharge of pollutants and protect the public health and the environment.

This permit does not constitute a final agency action at the Lenox China site. The intent of issuance of the emergency permit is to halt the migration of contaminants toward actual and potential receptors. This emergency permit precedes a final permit that will be issued at a later date.

PUBLIC COMMENT PROCEDURES

Copies of the emergency permit have been sent to the Mayor, Municipal Clerk, Planning Board, Sewerage Authority, Health Officer and the Environmental Commission of Galloway Township, Atlantic County.

The emergency permit prepared by NJDEPE is based on the administrative record which is on file at the offices of the NJDEPE, Division of Publicly Funded Site Remediation, located at 401 East State Street in the City of Trenton, Mercer County, New Jersey. It is available for inspection, by appointment, between 8:30 A.M. and 4:00 P.M., Monday through Friday. Appointments for inspection may be scheduled by calling (609) 292-0400.

Interested persons may submit written comments on the emergency permit to the Assistant Director, Ground Water Quality Management, at the address cited above. All comments shall be submitted within 30 days of the date of this public notice. All persons, including applicants, who believe that any condition of this permit is inappropriate, must raise all reasonably ascertainable issues and submit all reasonably available arguments and factual grounds supporting their position, including all supporting material, by the close of the public comment period. All comments submitted by interested persons in response to this notice, within the time limit, will be considered by the NJDEPE with respect to the requirements being applied to this facility. The Department will respond to all significant and timely comments. The owner or operator and each person who has submitted written comments will receive notice of NJDEPE's final decision.

Additional information concerning the emergency NJPDES Permit may be obtained between the hours of 8:00 A.M and 4:30 P.M., Monday through Friday from the Bureau of Ground Water Pollution Abatement (609) 292-8427.

Arnold Schiffman, Assistant Director
Ground Water Quality Management

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PERMIT NUMBER NJ0086487

EMERGENCY

Permittee

LENOX CHINA INC
A DIVISION OF LENOX INCORP
TILTON ROAD
POMONA NJ 08240

Co-Permittee

Property Owner

LENOX INC
100 LENOX DRIVE
LAWRENCEVILLE NJ 08648

Location of Activity

LENOX CHINA
A DIVISION OF LENOX INCORP
TILTON ROAD
POMONA NJ 08240

Current Authorization Covered By This Approval And Previous Authorization	Issuance Date	Effective Date	Expiration Date
K :UNDERGROUND INJECT(UIC)INDUST	11/19/1991	11/19/1991	02/17/1992

By Authority of:

DEP AUTHORIZATION

Arnold Schiffman P.G., Assistant Director
Ground Water Quality Management Element

FACT SHEET

FOR NJPDES PERMIT TO DISCHARGE INTO GROUND WATERS OF THE STATE

NAME AND ADDRESS OF APPLICANT:

Lenox, Inc.
100 Lenox Drive
Lawrenceville, NJ 08648

NAME AND ADDRESS OF FACILITY WHERE DISCHARGE OCCURS:

Lenox China, a division of Lenox Incorporated
Tilton Road
Atlantic County
Pomona, New Jersey 08240

DESCRIPTION OF FACILITY:

Lenox China, a division of Lenox Incorporated, is located in a rural area on the outskirts of the Town of Pomona in southeastern New Jersey. The facility manufactures ceramic dinnerware and giftware. The manufacturing process includes the progressive dewatering of clay solution (slip) to form the shape of the ceramic pieces. The pieces are then kiln fired, coated with a leaded glaze mixture, and then refired. Process wastes include waste solvent sludge, which is drummed and taken off site for incineration, clay solution waste (slip) and glaze waste (fritted lead compounds).

RECEIVING WATERS/HYDROGEOLOGY:

The ground waters of the State. Discharge is to the Miocene Age Cohansey Sand and Kirkwood Formation. The Cohansey Sand consists of irregularly bedded unconsolidated sand and gravel which contain varying percentages of clay and silt. Discontinuous clay layers are also present. Underlaying the Cohansey Sand is the Kirkwood Formation, which is made up of dense, diatomaceous clay units and coarse, unconsolidated sands. Three principal aquifers, known as the Upper Cohansey, Lower Cohansey and Lower Kirkwood, underlie the facility and comprise the Cohansey-Kirkwood Aquifer System. Depth to ground water is shallow across the site, ranging from approximately 3 to 10 feet below the ground surface. Ground water flow direction is generally north-northeast.

DESCRIPTION OF DISCHARGE:

A documented release of trichloroethylene (TCE) to the ground water has occurred at the Lenox China facility and the contaminated ground water has migrated offsite of Lenox property. Investigations conducted by Lenox indicates the presence of two TCE plumes which originated from two different source areas. The sources of the TCE are believed to be an antecedent degreaser sump and drum storage pad (i.e. both which are no longer in existence).

DESCRIPTION OF PERMIT

This notice is being given to inform the public that the New Jersey Department of Environmental Protection and Energy (NJDEPE) has issued an Emergency New Jersey Pollutant Discharge Elimination System-Discharge to Ground Water (NJPDES/DGW) Permit in accordance with the provisions of the New Jersey Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and its implementing regulations (N.J.A.C. 7:14A-1 et seq.).

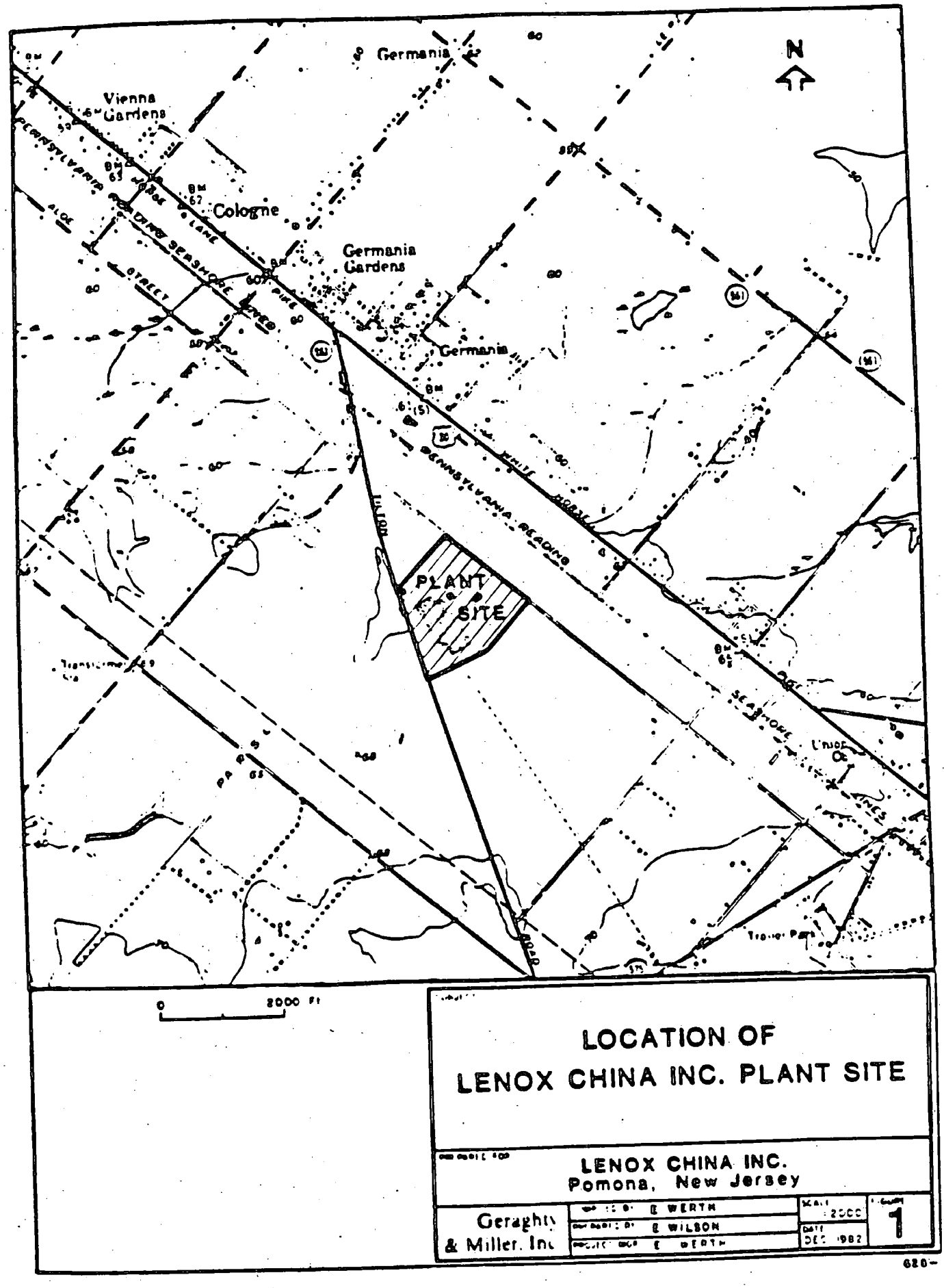
This permit is designed to regulate and monitor the operation of a ground water recovery and treatment system that discharges treated ground water to on-site infiltration trenches. The permit specifies monitoring parameters and sampling frequencies for the monitor wells, recovery wells and treatment system effluent as well as requirements for evaluation of the treatment system.

Lenox China is an existing facility and implementation of the NJPDES requirements are the enforcement mechanism by which existing pollutant discharges are brought into conformance and compliance with laws, regulations and standards. The pollution control requirements are those conditions necessary to restrict the discharge of pollutants and protect the public health and the environment.

This permit does not constitute a final agency action at the Lenox China site. The intent of issuance of the emergency permit is to halt the migration of contaminants toward actual and potential receptors. This emergency permit precedes a final permit that will be issued at a later date.

PERMIT CONDITIONS

The Emergency NJPDES-DGW permit has requirements listed in the attached sections regarding General Conditions, Detection and Effluent Monitoring Programs, Corrective Measures Study and Corrective Measures Implementation.



LOCATION OF LENOX CHINA INC. PLANT SITE

LENOX CHINA INC.
Pomona, New Jersey

Geraghty & Miller, Inc	E WERTH / E WILSON / E WERTH	SCALE 1:2000	1
		DATE DEC 1982	

620-

State of New Jersey
Department of Environmental Protection and Energy
Division of Publicly Funded Site Remediation

GENERAL CONDITIONS FOR ALL NJPDES-DGW PERMITS

The New Jersey Pollutant Discharge Elimination System (NJPDES) regulations (N.J.A.C. 7:14A-1 et seq.) as authorized by the New Jersey Water Pollution Control Act (N.J.S.A. 58:10A et seq.) identify requirements for all Discharge to Ground Water Permits. Information concerning these general permit requirements may be found in the following sections of the NJPDES regulations:

Permit Requirement	Citation
General Information	Subchapter 1
General Requirements for the NJPDES Permit	Subchapter 2
Additional Requirements for an Industrial Waste Management Facility	Subchapter 4
Additional Requirements for Underground Injection Control Program	Subchapter 5
Additional Requirements for Discharges to Ground Water (DGW)	Subchapter 6
Procedures for Decision Making	Subchapter 7
Public Comments and Public Notice	Subchapter 8
Filing Requirements for NJPDES Permits	Subchapter 10
Public Access to Information and Requirements for Departmental Determination of Confidentiality	Subchapter 11

DETECTION AND CORRECTIVE ACTION
GROUND WATER MONITORING REQUIREMENTS AND STANDARDS

1. The locations of existing ground water monitor wells required to be sampled or monitored are shown on Figure 2, Part III-DGW, Page 10 of 10.

2. The permittee shall provide the Bureau of Ground Water Pollution Abatement with a minimum of two weeks notification prior to the installation of any ground water monitor wells at the site.

3. The owner or operator shall inspect each ground water monitor well on a monthly basis for structural integrity and/or damage. The permittee shall maintain a complete inspection record indicating dates of inspection, inspector's name, and conditions observed. These records shall be made available to the Department upon request. Failure to maintain or submit records upon request shall be a violation of the conditions of this permit.

4. The permittee is required to take any and all reasonable steps necessary to limit public access to monitoring or recovery wells, treatment systems, or any other potentially harmful or easily damaged equipment on the site by constructing fences, barricades, or any other structures or means necessary to restrict access to the equipment. These structures must be maintained to restrict access.

5. On property in which hazardous waste remains after closure, the owner or operator will not use the property in any way which will disturb the integrity of the containment and well monitoring system in accordance with N.J.A.C. 7:26-9.9 (e).

6. If the monitor wells are damaged or are otherwise rendered inadequate for their intended purpose, the Bureau of Ground Water Pollution Abatement shall be notified within five (5) days in writing indicating:

   a. Which wells were damaged or rendered inadequate for their intended use.

   b. The cause and extent of damage or the reason for the inadequacy.

   c. If the sampling schedule as required in this permit will be violated or if the results of the sampling may reasonably become misleading.

   d. The date that the well will again be operational. Damaged wells must be replaced or repaired within 60 days after the damage has occurred. If any of the following

situations have occurred, redeveloped or replacement wells must be sampled not prior to 14 days after development but no later than 28 days after installation:

Situation 1: Wells have been damaged in a way that affected the quality of previously taken ground water samples.

Situation 2: Due to damage to a well a regularly scheduled sampling event has been missed.

Note: Wells in situation 1 above that do not have to be redeveloped (only purged) must be sampled within five days of the discovery of the damage. If the next regularly scheduled sampling for the well(s) is within 21 days of the last day the well(s) should be sampled under 1 or 2 above, only the regular sampling event is required.

e. The next date that the well will be sampled;

A replacement well must meet the construction requirements established by the Department. A valid New Jersey well permit is required prior to the installation of the replacement well. Failure to follow these procedures is a violation of this permit and may subject the permittee to the provisions of N.J.S.A. 58:10A-10.

7. Satisfactory ground water wells are defined in Section 6.13 of the NJPDES regulations and shall be subject to Departmental approval. If ground water monitoring wells do not meet these standards, they must be replaced with new wells meeting Departmental standards.

8. A Ground Water Monitor Well Certification (Forms A and B) shall be completed for each existing and proposed ground water monitor well within 30 days of the installation of the ground water monitor wells. Information for each well must be shown on a separate form.

9. For an existing well, if information required on the Ground Water Monitoring Certification (Forms A and B) cannot be determined or the ground water monitoring well is not adequately constructed to meet the requirements of this permit, the Department reserves the right to require the replacement of that well. Criteria to be used by the Department in judging the adequacy of a well will be related to the ability of the well to provide a representative ground water sample from the portion of the aquifer which the Department requires to be sampled. Any replacement well must be installed within a 10 foot radius of the existing well. Inadequate or damaged existing wells must be properly sealed pursuant to N.J.A.C. 58:4A-4.1. Instructions

regarding sealing may be obtained by contacting the Bureau of Water Allocation at (609) 984-6831.

10. As a precaution against cross contamination (in addition to complete decontamination of purging and sampling equipment pursuant to Department requirements), monitoring wells must be sampled in order of least to most contaminated unless dedicated purging and sampling equipment are used for all wells.

11. The permittee shall complete the enclosed reporting forms and also "Monitoring Report - Transmittal Sheet" (Form T-VWX-014) which are included as a part of this permit (Appendix G). Permittee must fill out, sign and submit Form T-VWX-014. The signature on Form T-VWX-014 must be an original each time it is submitted. Failure to submit sampling data on the forms required on the "Monitoring Report - Transmittal Sheet" shall be considered by the Department to be a violation of the permit sampling requirements and may place the permittee subject to civil and administrative penalties pursuant to N.J.S.A. 58:10A-10. It shall the permittee's responsibility to maintain an adequate supply of the required report forms.

Discharge Monitoring Report (DMR) forms shall be sent to:

Department of Environmental Protection and Energy
Wastewater Facilities Regulation Element
Bureau of Information Systems
CN-029
Trenton, NJ 08625

Attention: Discharge Monitoring Reports

Monitoring Well report forms shall be sent to:

Department of Environmental Protection and Energy
Ground Water Quality Management Element
Bureau of Aquifer Protection
CN-413
Trenton, NJ 08625

Attention: Monitoring Well Reports

12. All samples are to be analyzed by a New Jersey Certified Laboratory. The detection limits to be achieved for inorganic parameters and cyanide shall be less than the ground water protection standards. The laboratory must follow the Quality Assurance/Quality Control (QA/QC) procedures of the Division of Publicly Funded Site Remediation (DPFSR) QA/QC package. A list of the analytical methodologies used must be retained by the permittee and submitted upon request of the Department. For each reporting

period, the permittee shall submit a copy of the laboratory's analysis report, "Monitoring Report-Transmittal Sheet" (Form T-VWX-014), a list of the monitoring wells and the measured ground water elevations, and a report with the applicable items in N.J.A.C. 7:14A-2.5(a)14 to:

Department of Environmental Protection and Energy
Division of Publicly Funded Site Remediation
Ground Water Quality Management Element
Bureau of Ground Water Pollution Abatement
CN-029
Trenton, NJ 08625

Attention: Daryl Clark

In addition to the reporting forms referenced above, the permittee shall present analytical results in a summarized, tabular form.

13. Appendix I (Quality Assurance/Quality Control (QA/QC) Package) shall be completed and submitted for each sampling event. This shall include sections A, B, C and the applicable portions of section D.

14. The point of compliance for this permit is the vertical surface located at the hydraulically downgradient extent of the facility's waste management areas. The waste management areas are those areas within an imaginary line circumscribing all regulated units and present or past discharge areas. It shall be assumed that the monitoring wells monitor ground water quality at the point of compliance.

15. The ground water protection standards for the constituents listed in the following tables are (1) the Ground Water Quality Standards, and (2) ground water clean up criteria. These ground water standards are based on the NJPDES Regulations, N.J.A.C. 7:14A-1 et seq., the Hazardous Waste Regulations, N.J.A.C. 7:26-8.16 et seq., and the Ground Water Quality Standards, N.J.A.C. 7:9-6 et seq. These ground water protection standards shall not be construed as effluent limitations which are defined under N.J.S.A 58:10A-3f of amendments to the New Jersey Water Pollution Control Act.

16. If a ground water protection standard, as defined above, is exceeded for parameters and wells other than those already included in the corrective action program, the permittee must notify the Assistant Director, Ground Water Quality Management Element, CN-029, Trenton, NJ 08625 in writing by certified mail within seven days of the permittee's receipt of the analytical results.

17. For the Detection Monitoring Program of this permit, within 45 days of the receipt of analytical results that indicate that a ground water protection standard has been exceeded at a compliance point for a second sampling and analysis event, or upon written notification by the Department, the permittee shall submit to the address in Condition 12 for review and approval a compliance monitoring program which, at a minimum, includes the following:

    a) additional sampling and data analysis which clearly indicate whether contamination has entered ground water.

    b) identification of all sources of discharges to ground water (e.g. leaking underground tank, damaged surface impoundment, failed septic system, etc.) and plans to immediately remediate or eliminate the sources of discharges to ground water as they are revealed in the course of investigation;

    c) additional monitoring wells, if necessary, to delineate the horizontal and vertical extent of ground water contamination;

    d) applicable portions of N.J.A.C. 7:14A-6.15(j).

    e) a reasonable timetable for implementation of the plan.

    Upon notification by the Department, or upon receipt by the Department of the compliance monitoring program, the Department will recalculate permit fees based on the criteria set forth in N.J.A.C. 7:14A-1.8.

18. If the Department determines that new information justifies additional requirements to the compliance monitoring plan, or the implementation of a revised corrective action program, as defined in N.J.A.C 7:14A-6.15(k), the Department shall notify the permittee that such a plan is required and will prepare a draft major modification for public notice to include new conditions (cf. N.J.A.C. 7:14A-2.12).

19. The permittee must follow a Ground Water Sampling and Analysis Plan (GWSAP) which is in accordance with Chapter 4 of the USEPA RCRA Ground Water Monitoring Technical Enforcement Guidance Document (OSWER-9950.1, September, 1986). Lenox shall implement the ground water sampling and analysis plan approved by the Department on January 4, 1991.

20. The permittee shall sample a total of 6 ground water monitor wells, including upgradient well MW-1 and downgradient wells MW -3, -4, -6, -9, -10 according to the schedule in Table 1 below. These wells are the designated RCRA wells for the glaze basin and the slip basin. All ground water elevations must be determined prior to evacuation and sampling of the

wells. Sampling of the wells shall be performed according to the methodology specified in Section 6.12 of the NJPDES regulations and Chapter 4 of USEPA's RCRA Ground Water Monitoring Technical Enforcement Guidance Document (OSWER-9950.1, September, 1986). A chain of custody record for each sample shall be maintained at the facility and may be requested and/or examined by the Department. The permittee or his/her agent shall evacuate the ground water monitoring wells according to the procedures identified in Section 6.12 of the NJPDES regulations no more than four hours prior to sample collection. These requirements are part of a detection monitoring program.

TABLE 1
Slip and Glaze Basin Detection Monitoring

PARAMETER	GROUND WATER PROTECTION STANDARD	SAMPLING MONTH	SAMPLE TYPE	REPORTING MONTH
Elevation of top of monitor well casing (to be determined once but reported as indicated)		FebMayAugNov	N/A	AprJulyOctJan
Elevation of original ground level (to be determined once but reported as indicated)		FebMayAugNov	N/A	AprJulyOctJan
Depth to Water Table from top of casing prior to sampling		FebMayAugNov	N/A	AprJulyOctJan
Depth to Water Table from original ground level prior to sampling		FebMayAugNov	N/A	AprJulyOctJan
Ammonia-Nitrogen (5)*	- ppm	FebMayAugNov	grab(1)	*AprJulyOctJan
Color	none	FebMayAugNov	grab	AprJulyOctJan
Lead & Compounds	0.05 ppm	FebMayAugNov	grab	AprJulyOctJan
Zinc & Compounds	5 ppm	FebMayAugNov	grab	AprJulyOctJan
pH (3)*	4-9 SU	FebMayAugNov	grab	AprJulyOctJan
Sodium (5)*	- ppm	FebMayAugNov	grab	AprJulyOctJan
Sulfate (5)*	- ppm	FebMayAugNov	grab	AprJulyOctJan
Total Dissolved Solids (TDS) (5)*	- ppm	FebMayAugNov	grab	AprJulyOctJan
Dissolved Oxygen	- ppm	FebMayAugNov	grab	AprJulyOctJan

NOTES:

See the notes at the end of Table 2.

21. The permittee shall sample a total of 9 ground water monitor wells, including MW- 1, -3, -4, -6, -7, -8, -9, -10 and -15 according to the schedule in Table 2 below. Monitoring wells 1, 7, and 8 will be used to monitor the Polishing Basin and Tilton Road Pond and are part of a detection monitoring program. For wells where a parameter in Table 2 corresponds to a parameter in Table 1, only one analysis is required for that parameter during a given sampling month. The requirement to sample and analyze for volatile organic compounds only applies to monitoring wells 1, 3, 6, 9, 10 and 15. Sampling and analysis for total volatile organic compounds will be reported annually, but the Department is only giving ground water protection levels for trichloroethylene and its breakdown products, which will be sampled and analyzed for quarterly; this is part of a corrective action monitoring program. The piezometer (P5) shall be monitored for water level elevations only, according to the schedule given in Table 2. All ground water elevations must be determined prior to evacuation and sampling of the wells. Sampling procedures will follow those outlined in Conditions 19 and 20 above.

22. The permittee shall perform a statistical analysis of all the parameters listed in Table 2 (Part III-DGW) below except volatile organics for each well. The arithmetic mean and variance of the samples will be calculated and compared to the initial background values of upgradient well MW-1. The Department may eliminate parameters or reduce monitoring frequency for parameters if the permittee can demonstrate a statistical basis for such action. Comparisons must be performed using a statistical test approved by the Department or as specified in N.J.A.C 7:14A-6.15(i). The statistical analyses will be performed after each sampling period.

TABLE 2
Sitewide Detection and Corrective Action Monitoring

PARAMETER	GROUND WATER PROTECTION STANDARD	SAMPLING MONTH	SAMPLE TYPE	REPORTING MONTH (4)*
Elevation of top of monitor well casing (to be determined once but reported as indicated)		FebMayAugNov	N/A	AprJulyOctJan
Elevation of original ground level (to be determined once but reported as indicated)		FebMayAugNov	N/A	AprJulyOctJan

Depth to Water Table from top of casing prior to sampling		FebMayAugNov	N/A	AprJulyOctJan
Depth to Water Table from original ground level prior to sampling		FebMayAugNov	N/A	AprJulyOctJan
Ammonia-Nitrogen (5)*	- ppm	FebMayAugNov	grab(1)*	AprJulyOctJan
Color	none	FebMayAugNov	grab	AprJulyOctJan
Iron (5)*	- ppm	FebMayAugNov	grab	AprJulyOctJan
Lead & Compounds	0.05 ppm	FebMayAugNov	grab	AprJulyOctJan
Manganese (5)*	- ppm	FebMayAugNov	grab	AprJulyOctJan
Zinc	5 ppm	FebMayAugNov	grab	AprJulyOctJan
Odor	none	FebMayAugNov		AprJulyOctJan
pH (3)*	4-9 SU	FebMayAugNov	grab	AprJulyOctJan
Sodium (5)*	- ppm	FebMayAugNov	grab	AprJulyOctJan
Sulfate (5)*	- ppm	FebMayAugNov	grab	AprJulyOctJan
Total Dissolved Solids (TDS) (5)*	- ppm	FebMayAugNov	grab	AprJulyOctJan
Total Organic Carbon (TOC)	- ppm	FebMayAugNov	grab	AprJulyOctJan
Dissolved Oxygen	- ppm	FebMayAugNov	grab	AprJulyOctJan
Total Volatile Organics (by GC/MS) (2)*		Feb	grab	Apr
Trichloroethylene	1 ppb	FebMayAugNov	grab	AprJulyOctJan
1,1-Dichloroethylene	2 ppb	FebMayAugNov	grab	AprJulyOctJan
cis-1,2-Dichloroethylene	10 ppb	FebMayAugNov	grab	AprJulyOctJan
trans-1,2-Dichloroethylene	10 ppb	FebMayAugNov	grab	AprJulyOctJan
Vinyl chloride	5 ppb	FebMayAugNov	grab	AprJulyOctJan

NOTES:

(1)* "Grab" means an individual sample of at least 100 milliliters collected over a period not exceeding 15 minutes.

(2)*

A. The method detection limits specified in 40 CFR Part 136- Methods 624 and/or 625 shall be achieved, and the quality assurance and quality control methodologies specified in 40 CFR Part 136 shall be utilized. In the event that a laboratory cannot achieve the required detection limit, the permittee must be able to document why these limits cannot be achieved (i.e. the specific instrument limitations). Alternate quantitation limits are subject to Departmental approval. Any alternate quantitation limit must be the lowest level that can be reliably achieved within the limits of precision and accuracy specified in 40 CFR Part 136. Documentation of these quality assurance and quality control measures, including the results of field, trip and method blanks, must be submitted within 30 days of a written request from the Department.

B. After the first round of sampling, permittee may propose another analytical methodology for Departmental approval.

C. The standards for these compounds are <u>ground water clean-up criteria</u>. These clean-up criteria must be achieved as described in Part VIII-DGW-I, Corrective Measures Implementation.

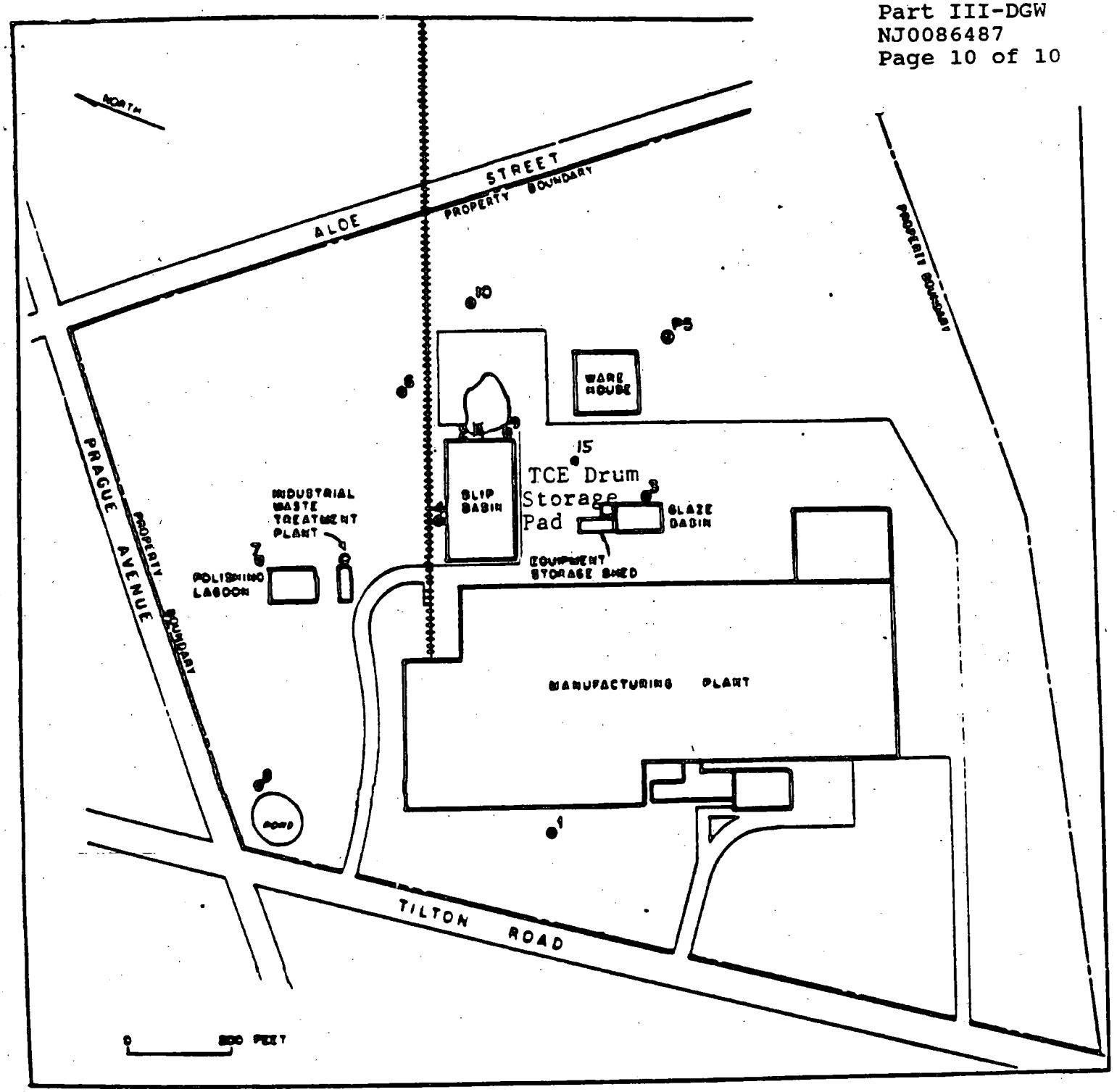
(3)*
The parameter pH is to be field determined.

(4)*
The data required to be reported by Tables 1 and 2 should be submitted in one combined report package for each reporting month.

(5)*
Ground water protection standards will not be set for these parameters at this time. Monitoring only is required. For wells 7 and 8, standards could be set in the future following the Department's final decision regarding the report submitted by Lenox entitled "Justification of Alternative Ground-Water Standards for Lenox China". For the RCRA wells listed in Condition 20 above, Lenox must perform the statistical analysis required by Condition 22 above and demonstrate that the concentrations of these parameters are decreasing over the life of this permit.

23. The data required to be reported by Tables 1 and 2 should be submitted in one combined report package for each reporting month.

24. Any exceedences for volatile organic compounds (VOCs) from monitoring wells which presently monitor the TCE plume or plumes shall not be violations of the conditions of this permit while remediation of the plume(s) by Lenox is in progress.



EXPLANATION

- ● MONITORING WELL
- ● PIEZOMETER
- ▣ ABANDONED MONITORING WELL
- □ WASTE TREATMENT/ STORAGE AREAS

FIGURE 2

FACILITY MAP

Lenox China, Pomona, New Jersey

CORRECTIVE MEASURES IMPLEMENTATION

The "Ground Water Remediation Design Report", dated August 1990, and the revised design report entitled "Addendum to August 1990 Groundwater Remediation Design Report", dated October 1991, in addition to the reports entitled "Groundwater Recharge Pilot Study Report, Lenox China Facility, Pomona, New Jersey" dated August 1991 and "Technical Specifications, Ground Water Remediation System", dated September 1991 are hereby approved by the Department with the following additional conditions and requirements. This ground water corrective action program must comply with the requirements of N.J.A.C 7:14A-6.15(k) and 5.1 et seq.

The Geraghty and Miller report, dated August 1990, was recieved by the Department and is entitled "Summary Report of the Investigation of Trichloroethene in Ground Water and Proposed Ground Water Remedial System". The permittee shall submit a revised version of this report, entitled "Addendum to the Summary Report of the Investigation of Trichlorethene in Ground Water and Proposed Ground Water Remedial System and a well location map within fourteen (14) days of the effective date of this permit. Following receipt of the revised report, the Department shall notify the permittee of it's approval in writing.

The Corrective Measures Plan prepared by Eder Associates entitled "Addendum to August 1990 Groundwater Remediation Design Report" recommends the use of injection trenches as part of the TCE ground water remediation program. The construction and use of injection trenches for this purpose must follow the guidelines for Underground Injection Control (UIC). (See Section X below.)

I. The applicable list of hazardous constituents and their ground water protection standards are given in Part III-DGW Table 2, pages 7 and 8 of 10. These are the ground water clean-up numbers for the remediation of the volatile organics contamination.

II. The point of compliance is defined in Part III-DGW Condition 14, page 4 of 10.

III. Pursuant to N.J.A.C. 7:14A-6.15(k)5 and 6:

A. The compliance period for Lenox's corrective action program extends as long as necessary to achieve compliance with the ground water protection standards for volatile organics listed in Part III-DGW Table 2, pages 7 and 8 of 10;

B. Hydraulic controls and recovery of contaminated ground water must be obtained and maintained for the entire plume of contamination exceeding the ground water

protection standards established in Part III-DGW, Table 2. Hydraulic control and recovery of ground water may be terminated if concentrations in the ground water are below the ground water protection standards for two consecutive quarterly rounds of sampling for all monitoring wells included in the corrective action program; and

C. The Compliance Period and corrective action ground water monitoring shall continue until the owner/operator can demonstrate that the ground water protection standards of Part III-DGW, Table 2 have not been exceeded for a period of three years after corrective action measures (i.e. hydraulic control and recovery of ground water) have ceased. If the ground water protection standard is exceeded within this time frame, the corrective action process shall be re-activated. In making this demonstration, the ground water protection standards shall be monitored at all corrective action program monitoring wells or as otherwise determined by the Department.

IV. Effluent samples shall be taken according to the schedule in Table 4. A sample of recovered ground water prior to treatment should be taken annually in order to evaluate treatment system performance and changes in recovered ground water over time. The first sample should be taken in the first quarterly sampling month listed below after the "start up" month for the ground water treatment system. Subsequent annual samples should be taken in May. These samples should be analyzed for the same parameters listed in Table 4. Data from analyses of any additional samples of this type that the permittee takes must be submitted to the Bureau of Ground Water Pollution Abatement (BGWPA) at the same time as the quarterly data is submitted pursuant to N.J.A.C. 7:14A-2.5(a)12vi.

A. All sampling will be performed according to the methodology specified in the Department's Field Procedures Manual for Water Data Acquisition.

B. Effluent Discharge Monitoring Report Forms will be sent from the Department to the Permittee. These forms must be completed and submitted to the first address given in Condition Eleven, Part III-DGW, page 3 of 10. Copies of these forms should be sent to the address in Condition Twelve, Part III-DGW, pages 3 and 4 of 10. The forms must be submitted at the same time and frequency as the ground water monitoring reports.

C. The established limits in Table 4 shall be met at the sampling point following treatment in the granular activated carbon treatment system prior to distribution to the injection system. If the

discharge limit is exceeded at any time, injection of treated water shall cease immediately and shall not commence without approval of the Department. Ceasing the discharge shall not be used as a defense against violation of permit discharge concentration limits or completion of the ground water decontamination.

TABLE 4

Corrective Measures Effluent Sampling: Injection Trenches

PARAMETER	EFFLUENT LIMITATIONS	SAMPLING MONTH	SAMPLING TYPE	REPORTING MONTH
Temperature, water	(1)*	FebMayAugNov	grab(2*)	AprJulOctJan
Chemical Oxygen Demand (COD)	(1)*	FebMayAugNov	grab	AprJulOctJan
pH	(1)*	FebMayAugNov	grab	AprJulOctJan
Total Suspended Solids (TSS)	(1)*	FebMayAugNov	grab	AprJulOctJan
Phosphorus, Total	(1)*	FebMayAugNov	grab	AprJulOctJan
Total Organic Carbon (TOC)	(1)*	FebMayAugNov	grab	AprJulOctJan
Lead, Total	0.05 ppm	FebMayAugNov	grab	AprJulOctJan
Iron	(1)*	FebMayAugNov	grab	AprJulOctJan
Zinc	5 ppm	FebMayAugNov	grab	AprJulOctJan
Ammonia-Nitrogen	(1)*	FebMayAugNov	grab	AprJulOctJan
Sulfate	(1)*	FebMayAugNov	grab	AprJulOctJan
Sodium	(1)*	FebMayAugNov	grab	AprJulOctJan
Flow, in gpd	(1)*	FebMayAugNov	continuous	AprJulOctJan
Total Dissolved Solids (TDS)	(1)*	FebMayAugNov	grab	AprJulOctJan
Trichloroethylene	10 ppb	FebMayAugNov	grab	AprJulOctJan
1,1-Dichloroethylene	10 ppb	FebMayAugNov	grab	AprJulOctJan
cis-1,2-Dichloroethylene	10 ppb	FebMayAugNov	grab	AprJulOctJan

trans-1,2-Dichloroethylene	10 ppb	FebMayAugNov	grab	AprJulOctJan
Methylene Chloride	10 ppb	FebMayAugNov	grab	AprJulOctJan
Vinyl Chloride	10 ppb	FebMayAugNov	grab	AprJulOctJan
Chloroform	10 ppb	FebMayAugNov	grab	AprJulOctJan

NOTES:

(1)*
Monitoring only is required. No DGW limits have been set at this time. Effluent limits could be set in the future if monitoring data indicates it is necessary.

(2)*
"Grab" means an individual sample of at least 100 mililiters collected over a period not exceeding 15 minutes.

V. The permittee shall also submit a monthly report to the BGWPA including total volume of ground water withdrawn, total volume of treated ground water injected and any upsets or malfunctions in the recovery, treatment or injection systems that may have occurred during the month.

VI. The permittee shall submit ground water elevation contour maps quarterly for the entire facility based on water levels obtained during quarterly sampling.

VII. The permittee must submit a report semi-annually which details the effectiveness of the approved corrective action system.

VIII. If the Department determines that the ground water corrective action system is not capable of meeting the requirements of this permit, the permittee must submit a plan within 45 days of the Departmental notification which must include but is not limited to the following:

a. The proposed location, depth and construction of the additional wells necessary to meet the permit requirements.

b. The rationale for the proposed locations.

All wells required pursuant to this condition must be installed within 60 days of NJDEPE written approval.

IX. The Corrective Action outlined in the approved plan shall be instituted within 30 days of the effective date of this permit.

X. The permittee must comply with all applicable requirements of N.J.A.C. 7:14A-5.1. The following program, General Conditions for the Underground Injection Control (UIC) of Class IV wells are specified based on those requirements.

A. Construction Requirements

1. Construction of Injection System

a) The injection system must be constructed in accordance with the plans submitted.

b) The area of review for the injection fields shall be determined in accordance with N.J.A.C. 7:14A-5.13(a)1-3. The ground water recovery system must be considered in making this determination.

B. Operation and Maintenance

1. General Requirements

a) The permittee must obtain a well drilling permit before constructing any well. Applications for well permits can be obtained from:

Water Supply Element
CN-029
Trenton, New Jersey 08625

b) The permittee is required to submit inventory information regarding the well(s) to the Department when an application is made for a Class IV well drilling permit. This information must consist of the following:

- well drilling permit number
- facility name and location
- name and address of legal contact
- ownership of facility
- nature and type of injection well(s)
- operating status of injection well(s)

2. Pursuant to N.J.A.C. 7:14A-5.7(b), the Department required the permittee to obtain this UIC/NJPDES permit for Class IV injection wells. The protection of the underground sources of drinking water require that the injection system be regulated by requirements for corrective action, monitoring and reporting and operation. Pursuant to N.J.A.C. 7:14A-5.9, the following conditions apply:

a) The permittee shall retain all monitoring records and all records concerning the nature and composition of injected fluids until five (5) years after completion of any plugging and abandonment procedures.

b) New injection wells may not commence injection until construction is complete and the permittee has submitted well completion reports and the Department has inspected or otherwise reviewed the new injection wells and find them in compliance with permit conditions.

C. Contingency Requirements

1. Pursuant to N.J.A.C. 7:14A-5.9(a)4, the permittee is required to report to the Department the following conditions within 2 hours:

   a) Any monitoring or other information which indicate that contaminants may endanger a potable supply well.

   b) Any noncompliance with permit conditions or a malfunction of the injection system that may cause contaminated fluid migration to a potable supply well.

2. Pursuant to N.J.A.C. 7:14A-5.9(a)5, the permittee is required to report to the Department the following conditions within 24 hours:

   a) Any monitoring or information which indicate that a contaminant may cause endangerment to an underground source of drinking water.

   b) Any noncompliance with permit conditions or a malfunction of the injection system that may cause fluid migration into or between an underground source of drinking water.

3. Pursuant to N.J.A.C. 7:14A-5.4, no UIC authorization will be allowed if a Class IV well causes or allows movement of fluids containing any contaminants into underground sources of drinking water and if the presence of the contaminants may cause a violation of any primary drinking water standards under N.J.A.C. 7:10-5, ground water quality standards under N.J.A.C. 7:9-6 or which may adversely affect the health of humans. If at any time the Department learns that Class IV wells are causing violations as stated above, the Department shall:

a) Order the permittee to take such action as is necessary to prevent or stop the violation; and/or

b) Take enforcement action.

D. Plugging and Abandonment

1. The permittee shall notify the Department at least 180 days before the conversion or abandonment of the well. Along with this notice, the permittee shall submit a plugging and abandonment plan which will follow the requirements of N.J.S.A 58:4A-4.1 et seq and N.J.A.C. 7:9-9 (sealing of abandoned wells) where applicable.

Form T-VWX-014

DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY
DIVISION OF PUBLICLY FUNDED SITE REMEDIATION
GROUND WATER QUALITY ELEMENT

MONITORING REPORT – TRANSMITTAL SHEET

NJPDES NO. 0|0|8|6|4|8|7

REPORTING PERIOD mo. yr. | | | | THRU mo. yr. | | | |

PERMITTEE:

Name Lenox Incorporated

Address 100 Lenox Drive

Lawrenceville NJ 08648-2394

FACILITY:

Name Lenox China, a division of Lenox Incorporated

Address Tilton Road

Pomona NJ 08240 (County) Atlantic

Telephone (609) 984-9798

FORMS ATTACHED *(Indicate Quantity of Each)*

SLUDGE REPORTS - SANITARY

☐ T-VWX-007 ☐ T-VWX-008 ☐ T-VWX-009

SLUDGE REPORTS - INDUSTRIAL

☐ T-VWX-010A ☐ T-VWX-010B

WASTEWATER REPORTS

☐ T-VWX-011 ☐ T-VWX-012 ☐ T-VWX-013

GROUNDWATER REPORTS

18 VWX-015(A,B) 9 VWX-016 ☐ VWX-017

NPDES DISCHARGE MONITORING REPORT

☐ EPA FORM 3320-1

OPERATING EXCEPTIONS

	YES	NO
DYE TESTING	☐	☐
TEMPORARY BYPASSING	☐	☐
DISINFECTION INTERRUPTION	☐	☐
MONITORING MALFUNCTIONS	☐	☐
UNITS OUT OF OPERATION	☐	☐
OTHER	☐	☐

(Detail any "Yes" on reverse side in appropriate space.)

NOTE: The "Hours Attended at Plant" on the reverse of this sheet must also be completed.

AUTHENTICATION - I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

LICENSED OPERATOR

Name *(Printed)* _____

Grade & Registry No. _____

Signature _____

Date _____

PRINCIPAL EXECUTIVE OFFICER or DULY AUTHORIZED REPRESENTATIVE

Name *(Printed)* _____

Title *(Printed)* _____

Signature _____

Date _____

Form VWX-015A
9/91

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY
DIVISION OF PUBLICLY FUNDED SITE REMEDIATION
GROUND WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS - MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

OWNER'S WELL ID NO._____

FACILITY NAME Lenox China	SW ID NO.
LAB NAME	

R (1) NJPDES NO. NJ 0086487 (2–8) WELL PERMIT NO. ___-_____-_ (9–16) SAMPLE DATE YR. MO. DAY (17–22) NJ LAB CERT.NO. (23–27) WQM USE (28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM MO. YR. TO MO. YR.

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANALYSIS	UNITS	PARAMETER	VALUE	REM
	X			X			X			X		Elev. of top of well casing with cap off (as specified in well completion report)	feet Msl: to nearest 0.01	72110		
	X			X			X			X		Elev. of original ground level (as specified in well completion report)	feet Msl: to nearest 0.01	72009		
	X			X			X			X		Depth to water table from top of casing prior to sampling (with cap off)	feet: to nearest 0.01	82546		
	X			X			X			X		Depth to water table from original ground level prior to sampling	feet: to nearest 0.01	72019		
												Arsenic, Dissolved	ug/l as As	01000		
												Barium, Dissolved	ug/l as Ba	01005		
												Biochemical Oxygen Demand - 5 Day	mg/l	00310		
												Cadmium, Dissolved	ug/l as Cd	01025		
												Chloride, Dissolved	ug/l as Cl	82295		
												Chromium, Dissolved	ug/l as Cr	01030		
												Chromium, Dissolved, Hexavalent	ug/l as Cr	01220		
												Chemical Oxygen Demand (COD), Dissolved	mg/l	00341		
												Coliform Group	n/100 ml	74056		
	X			X			X			X		Color	pt-co	00080		
												Copper, Dissolved	ug/l as Cu	01040		
												Cyanide, Total	mg/l as CN	00720		
												Endrin, Total	ug/l	39390		
												Fluoride, Dissolved	mg/l as F	00950		
												Gross Alpha, Dissolved	pc/l	01503		
												Gross Beta, Dissolved	pc/l	03503		
												Hardness, Total as CaCO3	mg/l	00900		
	X			X			X			X		Iron, Dissolved	mg/l as Fe	01046		
	X			X			X			X		Lead, Dissolved	ug/l as Pb	01049		
												Lindane, Total	ug/l	39782		
	X			X			X			X		Manganese, Dissolved	ug/l	01056		
												Mercury, Dissolved	ug/l	71890		

(29) (33 34) (40 41)

VALUE CODING AND REMARK CODES ON REVERSE

Form VWX-015B
9/91

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY
DIVISION OF PUBLICLY FUNDED SITE REMEDIATION
GROUND WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS - MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

OWNER'S WELL ID NO. ____________

FACILITY NAME	SW ID NO.
Lenox China	
LAB NAME	

	NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
S	NJ 0086487	- -			
1	2 … 8	9 … 16	17 … 22	23 … 27	28

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM ___ MO. ___ YR. TO ___ MO. ___ YR.

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANALYSIS	UNITS	PARAMETER	VALUE	REM
												Methoxychlor, Total	ug/l	39480		
												Methylene Blue Active Substances	mg/l	38260		
	X			X			X			X		Nitrogen, Ammonia, Dissolved NH3+NH4 as N	mg/l as N	00608		
												Nitrogen, Nitrate, Dissolved	mg/l as N	00618		
	X			X			X			X		Odor	T.O.N.	00085		
	X			X			X			X		pH	Stn. Units	00400		
												Phenols, Total Recoverable	ug/l	32730		
												Radium 226, Dissolved	pc/l	09503		
												Radium 228, Dissolved	pc/l	81366		
												Selenium, Dissolved	ug/l	01145		
												Silver, Dissolved	ug/l	01075		
	X			X			X			X		Sodium, Dissolved	mg/l	00930		
	X			X			X			X		Sulfate, Dissolved (as SO4)	mg/l	00946		
	X			X			X			X		Total Dissolved Solids (TDS)	ppm	70300		
	X			X			X			X		Total Organic Carbon (TOC)	ppm	00680		
												Total Organic Halogen (TOX)	ug/l	70353		
												Toxaphene	ug/l	39400		
												Turbidity	ntu	00076		
	X			X			X			X		Zinc, Dissolved	ug/l	01090		
												2,4-D, Total	ug/l	39730		
												2,4,5-TP, Total	ug/l	39045		
	X			X			X			X		Oxygen, Dissolved				
														29 … 33	34 … 40	41

VALUE CODING AND REMARK CODES ON REVERSE

Form VWX-016
9/91

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY
DIVISION OF PUBLICLY FUNDED SITE REMEDIATION
GROUND WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS - VOLATILE ORGANICS REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

OWNER'S WELL ID NO._____

FACILITY NAME Lenox China	SW ID NO.
LAB NAME	

T (1) NJPDES NO. NJ 0 0 8 6 4 8 7 (2–8) | WELL PERMIT NO. ___ - _____ - _ (9–16) | SAMPLE DATE YR. MO. DAY (17–22) | NJ LAB CERT.NO. (23–27) | WQM USE (28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM MO. YR. TO MO. YR.

SUBMIT WITH SIGNED T-VWX-014

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANALYSIS	UNITS	PARAMETER	VALUE	REM
	X											Acrylonitrile	ug/l	34215		
	X											Benzene	ug/l	34030		
	X											Bromoform	ug/l	32104		
	X											Carbon Tetrachloride	ug/l	32102		
	X											Chlorobenzene	ug/l	34301		
	X											Chlorodibromomethane	ug/l	34306		
	X											Chloroform	ug/l	32106		
	X											1,1-Dichloroethane	ug/l	34496		
	X											1,2-Dichloroethane	ug/l	34531		
	X			X			X			X		1,1-Dichloroethylene	ug/l	34501		
	X											1,2-Dichloropropane	ug/l	34541		
	X											Ethylbenzene	ug/l	34371		
	X											Methylene Chloride	ug/l	34423		
	X											1,1,2,2-Tetrachloroethane	ug/l	34516		
	X											Tetrachloroethylene	ug/l	34475		
	X											Toluene	ug/l	34010		
	X											1,1,1-Trichloroethane	ug/l	34506		
	X											1,1,2-Trichloroethane	ug/l	34511		
	X			X			X			X		Trichloroethylene	ug/l	39180		
	X			X			X			X		Vinyl Chloride	ug/l	39175		
	X											Acrolein	ug/l	34210		
	X											Chloroethane	ug/l	34311		
	X											2-Chloroethyl Vinyl Ether	ug/l	34576		
	X											Dibromochloromethane	ug/l	32105		
	X											1,3-trans-Dichloropropene	ug/l	34699		
	X											Methyl Bromide	ug/l	34413		
	X											Methyl Chloride	ug/l	34418		
	X			X			X			X		1,2-trans-Dichloroethene	ug/l	34546		
	X			X			X			X		cis-1,2-Dichloroethylene	ug/l			

(29–33 PARAMETER; 34–40 VALUE; 41 REM)

VALUE CODING AND REMARK CODES ON REVERSE

7-P1

00/00/00

FACT SHEET

FOR NJPDES DISCHARGE TO GROUND WATER PERMIT

NAME AND ADDRESS OF APPLICANT:

Lenox, Inc.
100 Lenox Drive
Lawrenceville, NJ 08648

NAME AND ADDRESS OF FACILITY WHERE DISCHARGE OCCURS:

Lenox China, a division of Lenox Incorporated
Tilton Road
Atlantic County
Pomona, New Jersey 08240

DESCRIPTION OF FACILITY:

Lenox China, a division of Lenox Incorporated, is located in a rural area on the outskirts of the Town of Pomona in southeastern New Jersey. The facility had manufactured ceramic dinnerware and giftware, but now only manufactures dinnerware. The manufacturing process includes the progressive dewatering of clay solution (slip) to form the shape of the ceramic pieces. The pieces are then kiln fired, coated with a leaded glaze mixture, and then refired. Process wastes include waste solvent sludge, which is drummed and taken off site for incineration, clay solution waste (slip) and glaze waste (fritted lead compounds).

RECEIVING WATERS/HYDROGEOLOGY:

The ground waters of the State. Discharge is to the Miocene Age Cohansey Sand and Kirkwood Formation. The Cohansey Sand consists of irregularly bedded unconsolidated sand and gravel which contain varying percentages of clay and silt. Discontinuous clay layers are also present. Underlying the Cohansey Sand is the Kirkwood Formation, which is made up of dense, diatomaceous clay units and coarse, unconsolidated sands. Three principal aquifers, known as the Upper Cohansey, Lower Cohansey and Lower Kirkwood, underlie the facility and comprise the Cohansey-Kirkwood Aquifer System. Depth to ground water is shallow across the site, ranging from approximately 3 to 10 feet below the ground surface. Ground water flow direction is generally north-northeast.

DESCRIPTION OF DISCHARGE:

A documented release of trichloroethylene (TCE) to the ground water has occurred at the Lenox China facility and the

contaminated ground water has migrated offsite of Lenox property. Investigations conducted by Lenox indicate the presence of two TCE plumes which probably originated from two different source areas. The sources of the TCE are believed to be an antecedent degreaser sump and drum storage pad (i.e. both which are no longer in existence). As part of the corrective measures implementation, this permit authorizes a discharge of treated ground water back to the ground via injection trenches. Part of the treated ground water may also be used for non-contact cooling in plant operations. This water would then be discharged to the ground via injection trenches. Lenox also plans to use part of the treated ground water for non-industrial sanitary purposes. This water would be sent to the local sanitary wastewater treatment plant. Lenox also intends to use part of the treated water for on-site spray irrigation and for spray irrigation of an adjacent property. Approval of the offsite irrigation is contingent upon Lenox submitting to the Department copies of all legal agreements made with the adjacent property owner(s).

In addition to the TCE discharge, the potential for additional contamination exists as a result of past and present activities at the Lenox China facility. A total of twelve (12) Solid Waste Management Units (SWMUs) were identified by USEPA as a result of a RCRA Facility Assessment (RFA). The following is a list and description of the SWMUs and Area of Concern (AOC).

SWMUs Identified at Lenox China Facility

1) Degreaser Sludge Pit
The degreaser sludge pit is located outside of the northeast portion of the manufacturing building. TCE sludge from a degreaser located inside of the building flows through a pipe and is collected in 30 gallon drums at the pit. This area was near the site of a previous degreaser sludge pit. The former degreaser sludge pit is suspected of being the source of one of the TCE plumes at the site.

2) Sludge Disposal Area
Waste sludge containing lead was dredged from the slip basin and placed in an area northeast of the basin. The sludge disposal area is approximately 200 feet by 200 feet. In 1975, this area was paved with asphalt and is now used as a parking area.

3) Waste Pile
During excavation of the glaze basin in 1988, a seam in the west wall of the basin, approximately 15 feet long and 6 to 12 inches thick, containing a white, clayey material was discovered. The material tested high for lead concentration and has the appearance of glaze waste material. Lenox suspects the material may be the remnants of an antecedent

basin used to store glaze waste.

4) Polishing Lagoon
A non-hazardous waste lagoon that is part of the facility waste treatment system is used for temporary storage of non-hazardous wastewater generated by plant activities. It is rectangular and measures approximately 60 feet by 90 feet and has an average depth of 6 feet. The estimated capacity of the basin is 110,000 gallons. The polishing basin received wastewater pumped from the slip basin until use of that basin was discontinued in 1987. Recent modification of the waste treatment plant allows non-hazardous wastewater to be transferred directly from a Rex Clarifier (a device for settling solids from liquid) to the polishing basin, where further clarification takes place. The basin is periodically dredged to remove accumulations of solids and sludge.

5) Tilton Road Pond
This is a non-hazardous temporary storage lagoon that has an estimated capacity of 125,000 gallons. It receives treated wastewater from the polishing basin and is monitored for biological and chemical quality. Wastewater from the Tilton Road Pond is released into a culvert which runs under Tilton Road and into a storm water ditch. The ditch discharges the wastewater into the Jack Pudding Branch of Babcock Creek.

6) Underground Effluent Transfer Pipe
This unit consists of approximately 200 feet of steel piping that was used to transfer liquid from the glaze basin to the slip basin. Eighty feet of the pipe nearest to the slip basin has been removed.

7) Equalization Sump
Process wastewater from manufacturing areas was directed to this sump prior to treatment. The sump was made of reinforced concrete and its dimensions were approximately 8 feet by 12 feet and 6 feet in depth. It had an estimated capacity of 3,600 gallons. The sump was taken out of service in 1988. It was subsequently used to recycle plaster water. The sump was then cleaned, emptied and removed. The area where the sump was located has been graded and covered with crushed stones.

8) Piping
This includes all piping used in the wastewater treatment facility at Lenox China.

9) Underground Storage Tanks
The underground storage tanks, located behind the main manufacturing building, were removed in July 1987. Although Lenox states that tank removals were performed in accordance with New Jersey regulations and that information regarding tank removal was submitted, the Department has not received such documentation.

10) Glaze Basin
This is a RCRA regulated hazardous waste lagoon which was closed in July 1990 in accordance with applicable regulations. This lagoon was used to store waste glaze material consisting of clay, lead carbonate and lead glass. The total volume of waste deposited in the lagoon was approximately 1,200 cubic yards. During closure, most of the waste was removed, but a small amount of residual waste remains along the bottom and the north sidewall.

11) Slip Basin
This RCRA regulated hazardous waste lagoon was closed in September 1990. This lagoon was used to store clay waste material from 1954 to 1970 and process wastewater containing clay, lead carbonate, frit (low solubility lead compounds in glass form) and silica from 1970 to 1981. From 1981 to 1987, the lagoon received small amounts of process wastewater and was used for surge capacity for the wastewater treatment plant. The total volume of the lagoon was 7,100 cubic yards. The slip basin was closed by raising the waste material above the seasonal high water table, stabilizing the waste material in situ and capping.

12) Drum Storage Area
This RCRA regulated unit consists of an impermeable concrete and asphalt paved area designed to store 30 gallon drums of TCE waste sludge. The storage area drains to a sump pit that is designed to collect spilled material and pump it back into containers. The Drum Storage Area underwent RCRA closure in 1990 and now only stores hazardous waste for less than ninety (90) days. This area is also the site of a previous TCE drum storage area. The previous drum storage area is suspected of being the source of one of the TCE plumes at the Lenox China site.

Area Of Concern (AOC)

1) Area Between Monitoring Well #10 and Aloe Street
This area was not identified in the RFA. Drilling operations at this location revealed the presence of discolored surficial soils. Subsequent investigations conducted by Lenox found that slip waste had been deposited in this area.

DESCRIPTION OF PERMIT

The New Jersey Department of Environmental Protection and Energy (NJDEPE) intends to issue a New Jersey Pollutant Discharge Elimination System/Discharge to Ground Water (NJPDES/DGW) Permit for the purpose of:

- Monitoring ground water quality at the facility.

- Regulating operation of the two infiltration/percolation lagoons known as the polishing basin and Tilton Road Pond.

- Investigating waste management areas at the facility and determining the nature and extent of contamination caused by any past or current discharges.

- Developing and implementing any necessary interim remedial measures at any time during the investigation.

- Determining and evaluating the nature, source and extent of trichloroethylene (TCE) contamination at the site.

- Developing and implementing the necessary corrective measures to remediate the TCE contamination.

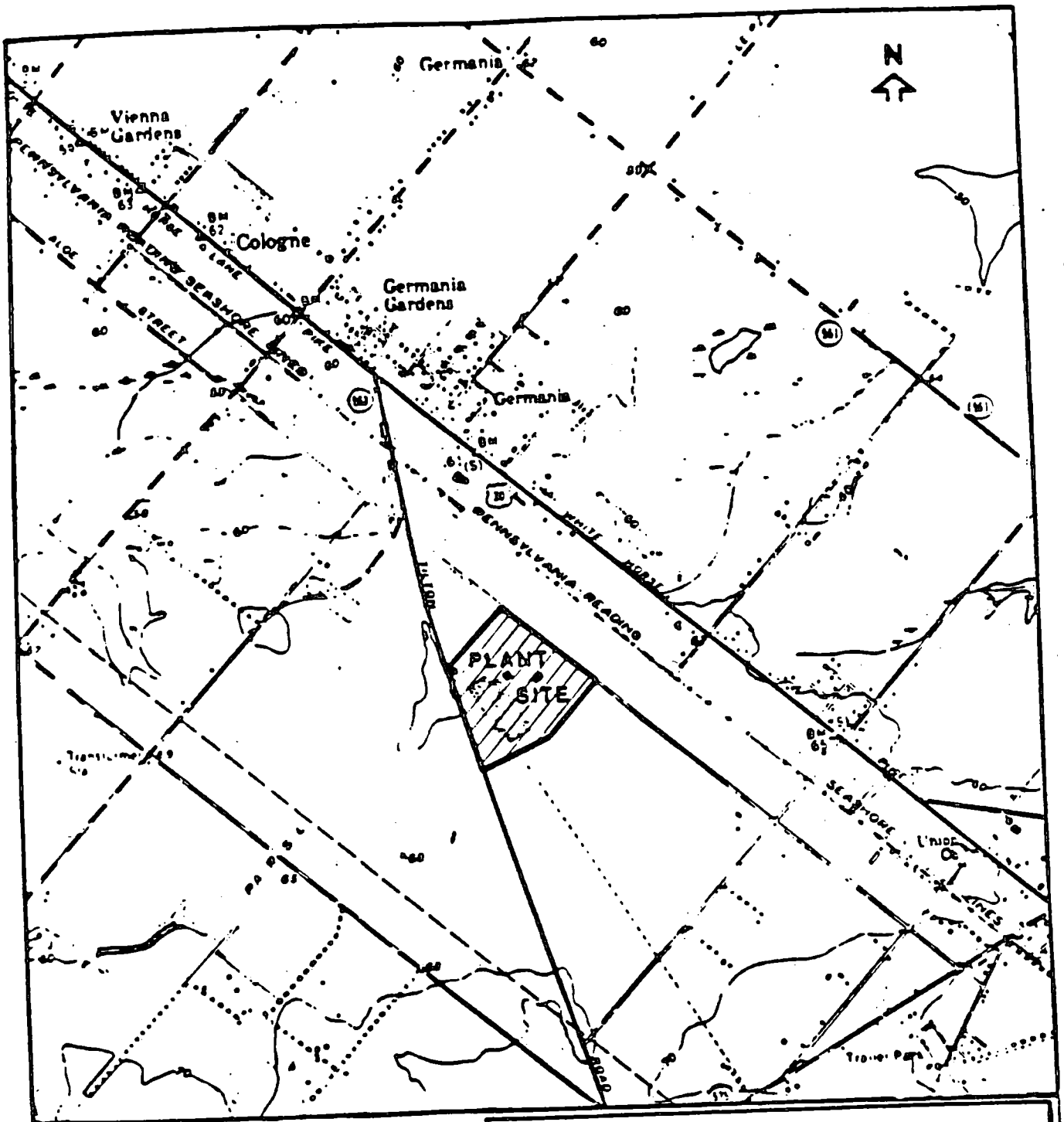
- Implementing post-closure of the RCRA regulated surface impoundments known as the slip basin and the glaze basin.

It is the intent of the Department that this permit be consistent with any federal or state-issued HSWA permit, and this permit is to be interpreted or modified as may be necessary to assure consistency between this permit and any such HSWA permit. However, this permit may contain additional requirements not included in the HSWA permit such as long term ground water or discharge monitoring.

Lenox China is an existing facility and implementation of the NJPDES requirements are the enforcement mechanism by which existing pollutant discharges are brought into conformance with laws, regulations and standards. The pollution control requirements are those conditions necessary to restrict the discharges of pollutants and protect the public health and the environment.

PERMIT CONDITIONS

The NJPDES-DGW permit has requirements listed in the attached sections regarding General Conditions, Interim Remedial Measures, RCRA Facility Investigation, Detection and Effluent Monitoring Programs, Corrective Measures Study, Corrective Measure Implementation and Post Closure Requirements.



LOCATION OF LENOX CHINA INC. PLANT SITE

LENOX CHINA INC.
Pomona, New Jersey

Geraghty & Miller, Inc	E WERTH	SCALE 2000	1
	E WILSON	DATE DEC 1982	
	E WERTH		

620-